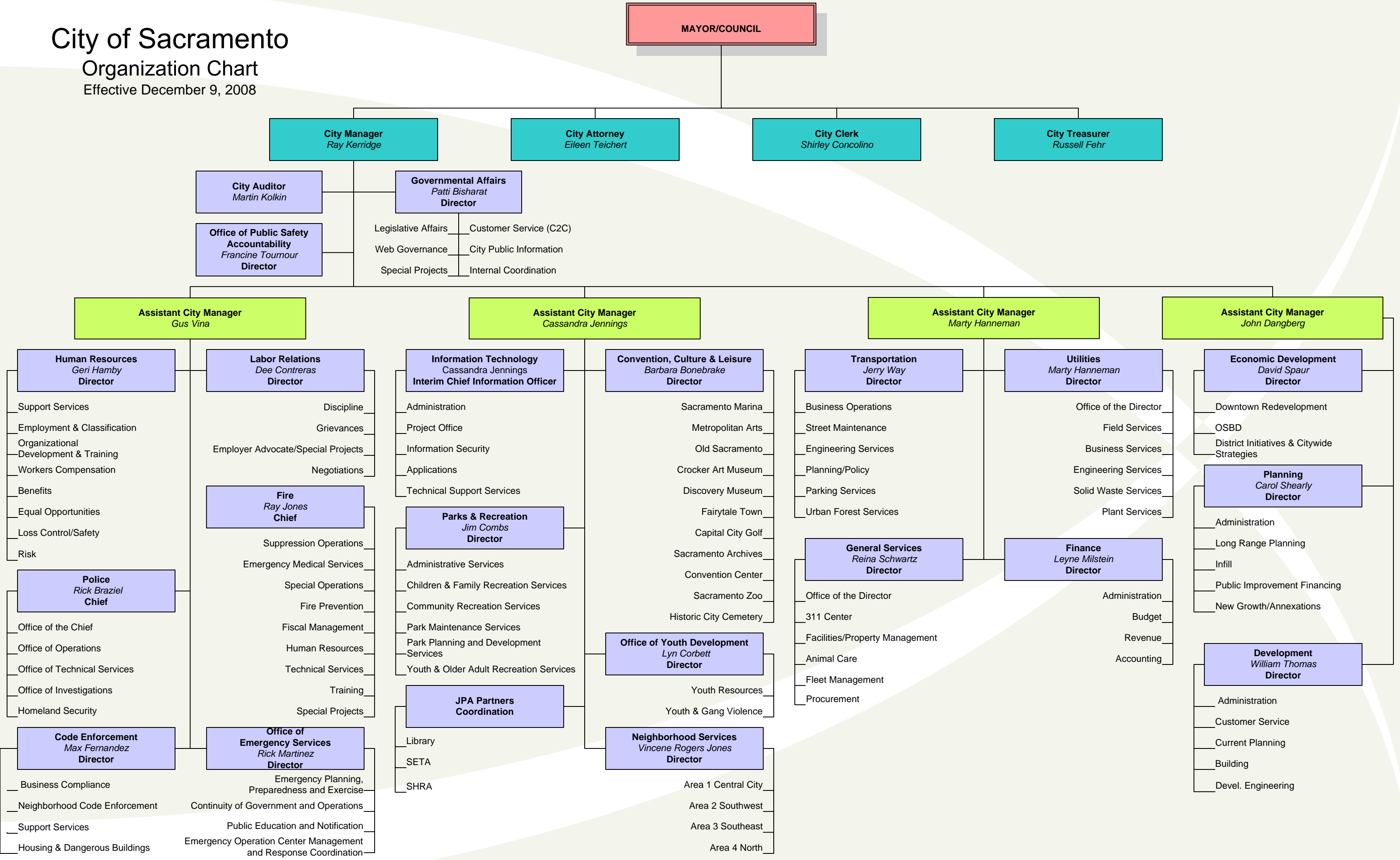


# City of Sacramento

## Organization Chart

Effective December 9, 2008



## **Section 16**

### **WATER QUALITY CONTROL**

#### **16-1 GROUND WATER DISCHARGES**

Contractor shall be responsible for the control, removal, and disposal of any groundwater that may be encountered in the course of excavating and backfilling trenches, placing pipe, or constructing any other improvements associated with the project. Unless approved in writing by the Engineer, groundwater and/or water from trench dewatering shall be free of sediment and other construction materials before entering the City sewer or storm drain system. A dewatering plan, including a water de-sedimentation plan, shall be submitted to the Engineer for approval prior to any pumping or discharging of water to the City storm drain system.

Issues which require the regulation of groundwater discharges include: influence on existing or unknown contaminate plumes, exceeding sewer and drainage capacity, excessive demands on facility infrastructure, pumping costs, and maintenance worker safety.

It is the responsibility of the contractor to verify that groundwater is free of contamination through a regular monitoring program.

All Groundwater discharges within the City of Sacramento must be arranged through the Water Quality Section of the Department of Utilities, (916)808-1400, 1395 35<sup>th</sup> Avenue, Sacramento CA 95822.

#### **DISCHARGE TO SEWER SYSTEM**

If 25,000 gallons of water per day, or more, is discharged to the City's Combined Sewer/Stormwater System, or Separate Sewer System, Contractor will be required to obtain a discharge permit from the Sacramento County Regional Sanitation District Industrial Waste Section (916-875-6470). The City will reimburse Contractor for fees paid to the County to obtain a discharge permit, but Contractor shall be responsible to pay any fines levied if Contractor does not comply with the permit requirements. Discharges of 25,000 gallons of water, or more, also require a Memorandum of Understanding (MOU) with the City of Sacramento. See [www.sacstormwater.org](http://www.sacstormwater.org) for MOU language. Fees will be waived for City sponsored projects. Contractor should allow 2-3 weeks for MOU process.

All new groundwater discharges to the City of Sacramento's combined or Separated Sewers must be regulated and monitored by the Department of

Utilities (refer City Council Resolution #92-439) Groundwater discharges to the City's sewer system are defined as follows:

1. Construction dewatering discharges
2. Treated or untreated contaminated groundwater cleanup discharges
3. Uncontaminated groundwater discharges

Currently, two types of groundwater discharges to the combined and separate sewer system are recognized by the Department of Utilities, which are: limited discharges and long-term discharges. These types of discharges are described as follows:

1. "Limited discharges"

Limited discharges are short groundwater discharges of 7-days duration or less and must be approved through the Department of Utilities by an acceptance letter.

2. "Long-term discharges"

Long term discharges are groundwater discharges of greater duration than 7-days. Long-term discharges must be approved through the Department of Utilities and the City Clerk through the MOU process.

#### **DISCHARGES TO THE STORM DRAINAGE SYSTEM**

Any groundwater discharges to the separate storm drainage system must be secured with an individual National Pollutant Discharge Elimination System (NPDES) permit from the California Regional Water Quality Control Board (Water Board) and an MOU from the City. The NPDES permit must be received prior to the City issuing an MOU to discharge to the City's storm drainage system.

If discharge is either four months or less in duration or the average dry weather discharge does not exceed 0.25 MGD, then the discharge can be covered under the General NPDES Permit for Dewatering and other Low Threat Discharges to Surface Waters. A Notice of Intent and filling fee must be filed with the Water Board for each project. Receiving water limitations are included in the permit.

#### **16-2 WATER QUALITY CONTROL**

These requirements consist of regulations contained in the National Pollution Discharge Elimination System (NPDES) Municipal Stormwater Permit issued to the City.

Contractor shall comply with all City and County of Sacramento air pollution control rules, regulations, ordinances, and statutes which apply to any work performed pursuant to the contract, including any air pollution control rules, regulations, ordinances, and statutes, specified in the Government Code. Contractor shall be responsible for the control of dust within the limits of the project at all times including weekends and holidays in addition to normal working days. Contractor shall take whatever steps are necessary or required by the Engineer to eliminate the nuisance of blowing dust without causing sediment, debris or litter to enter the City storm drain system.

### **16-3 EROSION, SEDIMENT, AND POLLUTION CONTROL**

Contractor shall be responsible for controlling erosion and sedimentation within the limits of the project at all times during the course of construction including evenings, weekends and holidays in addition to normal working days. Contractor shall prevent sediment and construction debris from entering the City storm drain system.

Contractor shall provide the following erosion, sediment, and pollution control Best Management Practices (BMPs) when and where applicable:

Contractor shall place Filter Bags in and Gravel bags around any storm drain inlets which receive runoff from the limits of the construction zone, including storage and staging areas. Alternative storm drain inlet protection BMPs may be used with approval of the Engineer. (See Section 38, drawings Q-20 and Q-30)

Contractor shall cover piles of material and/or place gravel berms (or approved equal) around material piles as required to prevent migration of material to gutters or storm drains.

Contractor shall keep gutter flowlines unimpeded and free of soil, debris and construction materials at all times.

Contractor shall stabilize construction entrance at any soil to concrete/asphalt interface used by Contractor vehicles and equipment in accordance with Section 38, drawing Q-10.

Contractor shall place silt fences, fiber rolls or approved equal at any soil to concrete/asphalt interface at which soil may be washed onto the concrete/asphalt in accordance with Section 38, drawings Q-40 and Q-50.

Wash water, slurry and sediment from concrete or asphalt saw-cutting operations shall not be allowed to enter the City storm drain system, but

instead must be collected and disposed of, by Contractor, in a manner approved by the Engineer.

Contractor is required to implement, at a minimum, the following housekeeping practices:

**Site Cleanup:**

Contractor shall be responsible for the control of dust, mud and debris resulting from Contractor's operations within the limits of the project at all times including weekends and holidays in addition to normal working hours. Contractor shall take whatever steps are necessary or required by the Engineer and daily clean up throughout the project shall be required as Contractor progresses with the work.

Daily or as needed, all paved areas within the limits of the project shall be cleaned and free of sediments, asphalt, concrete and any other construction debris. Contractor shall not clean sediment and debris from the street by using water to wash down streets. The streets shall only be washed after the streets have been thoroughly swept and/or vacuumed and inlet protection has been placed at all storm drain inlets to catch any remaining sediments from the streets.

Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public traveled way shall be removed immediately by Contractor at their expense. If site is not kept sufficiently clean, the City will take measures to clean it and subtract the cost thereof from payments owing the Contractor.

**Solid Waste Management:**

Contractor shall maintain a clean construction site. Contractor shall provide designated areas for waste collection. The waste collection areas shall be leak-proof containers with lids or covers. Site trash shall be collected daily and placed in the disposal containers. Contractor shall make arrangements for regular waste collection. Contractor shall also regularly inspect the waste disposal areas to determine if potential pollutant discharges exist.

**Hazardous Material Storage and Delivery Area:**

Contractor shall provide one central hazardous material storage and delivery area (HMSDA) for the duration of the project. Examples of hazardous materials include pesticides and herbicides; fertilizers; detergents; petroleum products; acids; lime; glues; paint; solvents and curing compounds. This area shall be protected such that polluted runoff will not be allowed to leave the

HMSDA site. Contractor shall regularly inspect the HMSDA site to ensure that any hazardous or non-hazardous materials have not spilled.

#### **Concrete Waste Management:**

Contractor shall arrange for concrete wastes to be disposed of off-site or in one designated on-site area. Concrete wastes, including left-over concrete and material from washing out the concrete truck, shall not be disposed or washed into the storm drain system. A designated on-site concrete waste containment area shall be provided. The site shall be bermed and lined to keep concrete waste from leaving the containment area. The dried concrete waste shall be removed and disposed of properly by Contractor at their expense.

#### **Spill Prevention and Control:**

Contractor shall be responsible for instructing employees and sub-contractors about preventing spills of hazardous materials such as equipment fuel, and about controlling spills if they occur. Proper spill control and cleanup materials and procedures shall be kept on site near the storage and equipment fueling areas and updated as materials change on site. Contractor is strictly responsible for the prevention, clean-up and consequences of any hazardous materials spills.

Throughout the duration of the project Contractor shall inspect and maintain, in effective condition, all erosion, sediment, and pollution control BMPs before and after each storm event and as needed. Contractor shall immediately correct or replace any ineffective BMPs.

More information about control measures and housekeeping practices can be obtained by referring to the City of Sacramento's Administrative and Technical Procedures Manual for Grading, Erosion and Sediment Control available at 1395 35<sup>th</sup> Avenue, Sacramento, CA 95822.

Contractor shall prepare and submit an erosion, sediment and pollution control plan (ESC Plan) to the Engineer for review. The submittal shall include a description of all erosion, sediment and pollution control BMPs proposed to be used to prevent sediment and other sources of pollution from entering the City storm drain system as well as a site plan showing their placement. The ESC Plan shall be submitted a minimum of 48 hours prior to start of the work. Contractor shall not begin work until an accepted ESC Plan is on file with the Engineer. The erosion, sediment and pollution control plan shall be updated as necessary and re-submitted to the Engineer.

#### **16-4 ENFORCEMENT**

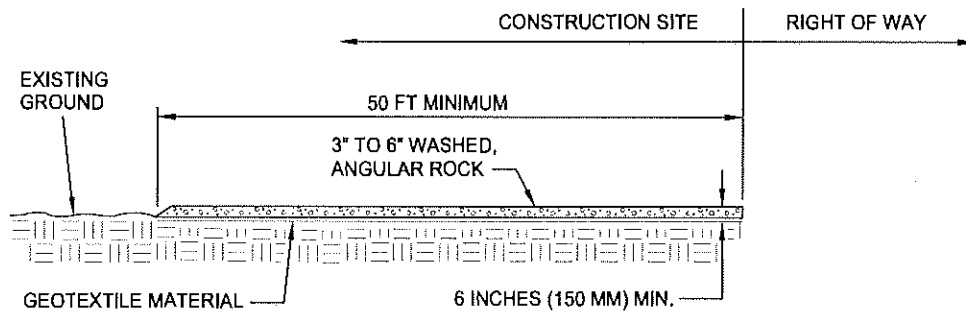
Per City Code Sections 15.88, 13.16 and 1.28, Contractor shall be subject to Notice of Violations (NOVs) resulting in possible Stop Work Orders and Administrative Penalties of up to \$4,999 per day for non-compliance of this section of the Special Provisions.

Per the State's Porter Cologne Water Quality Act, Contractor shall also be subject to inspection by Staff from the Central Valley Regional Water Quality Control Board who have the authority to issue Notices of Violation (NOVs) and Penalties of up to \$10,000 per day for non-compliance. Contractor shall be liable for any fines issued to the project by the State or Federal Government for NPDES non-compliance due to Contractor negligence.

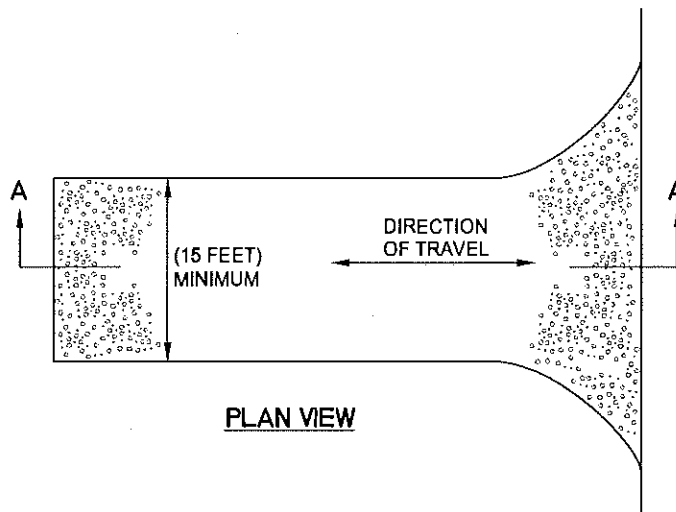
The City reserves the right to take corrective action and withhold the City's costs for corrective action from progress payments or final payment in accordance with Section 7, Retention of Sums Charged against Contractor, of the Agreement. Any fines, including third-party claims, levied against the Agency as a result of Contractor's non-compliance are Contractor's sole responsibility and will be withheld from progress payments or final payment in accordance with Section 7, Retention of Sums Charged against Contractor, of the Agreement.

#### **16-5 PAYMENT**

There will be no separate payment for Water Quality Control and the cost therefore shall be considered included in whatever item Contractor deems appropriate.



**SECTION A-A**



**PLAN VIEW**

**NOTES:**

1. STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED OF 3" TO 6" WASHED, ANGULAR ROCK. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6 INCHES.
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MIN. OF 15 FT OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.
3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN NOTE 1.
4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

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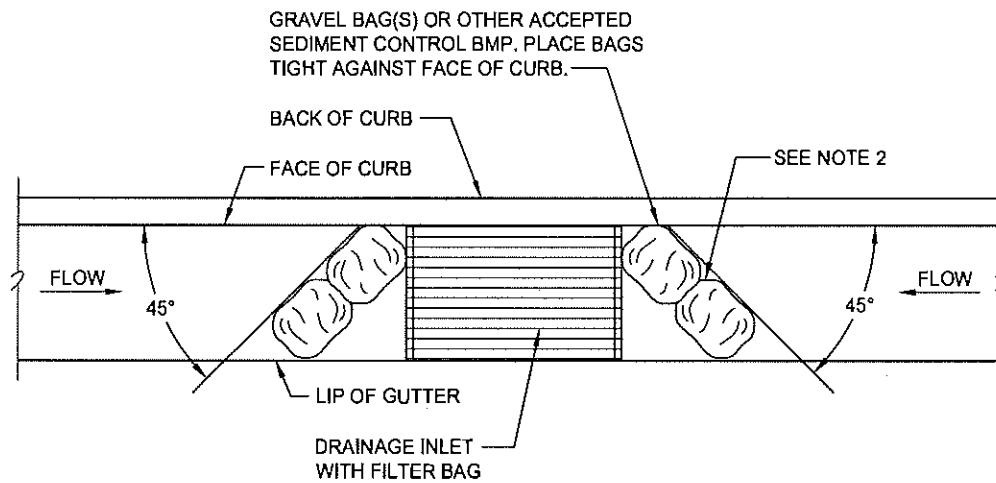
**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

**STABILIZED CONSTRUCTION  
ENTRANCE**

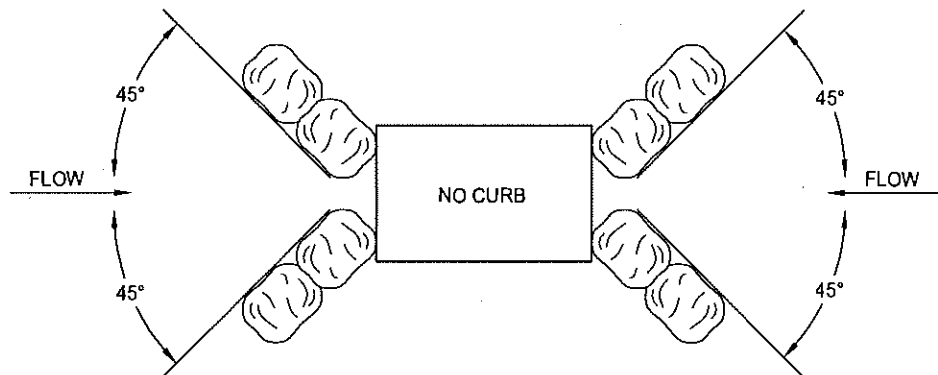
APPR'D BY: *DOB* NO SCALE  
DATE: MAY 2007 DWG. NO. **Q - 10**



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**PLAN VIEW**



**NOTES:**

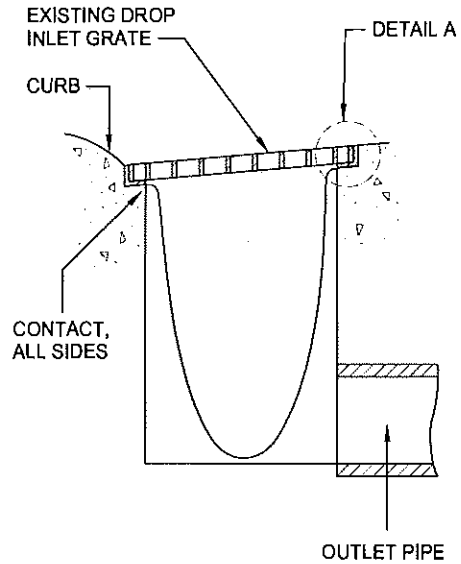
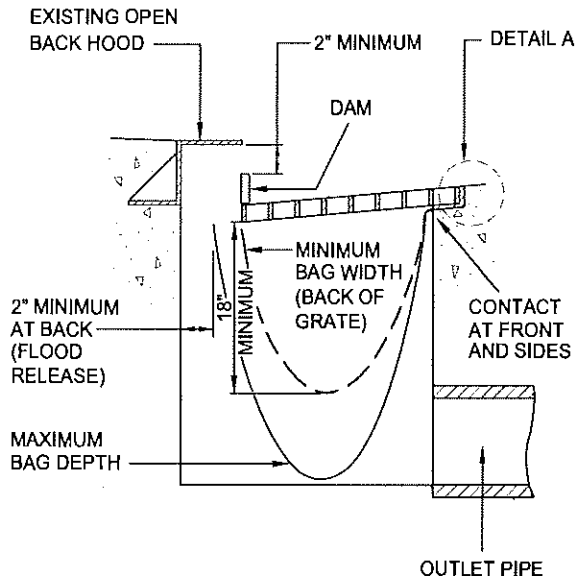
- 1.- SEDIMENT TRAPPED UPSTREAM OF SEDIMENT CONTROL BMP SHALL BE REMOVED WEEKLY AND PRIOR TO A RAINFALL EVENT.
- 2.- PLACE BMP'S TIGHTLY TOGETHER AT JOINTS TO PREVENT OR MINIMIZE SEEPAGE AT JOINTS.
- 3.- INLET SEDIMENT CONTROL MUST BE INSPECTED WEEKLY AND AFTER EACH STORM, AND REPAIRED OR REPLACED AS NEEDED.
- 4.- INLET SEDIMENT CONTROL IS REQUIRED FOR ALL DI's IN ADDITION TO A STORM DRAIN INLET FILTER BAG.

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**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

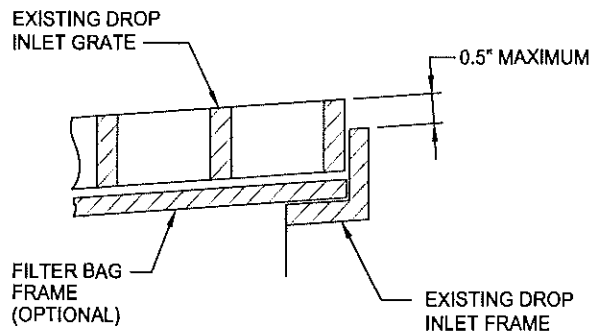
**INLET SEDIMENT  
CONTROL**

APPR'D BY: *DOB* NO SCALE  
DATE: MAY 2007 DWG. NO. **Q - 20**



#### NOTES:

- 1.- THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 2 ACRES.
- 2.- THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS PER LINEAL FOOT, AN EQUIVALENT OPENING SIZE NOT GREATER THAN 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ FT.
- 3.- THE FILTER BAG MAY BE SUSPENDED FROM OR HELD IN PLACE BY THE EXISTING INLET GRATE (OR OTHER APPROVED METHOD), PROVIDING NO MODIFICATION OR DAMAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED TO REST MORE THAN 0.5" ABOVE THE INLET FRAME (SEE DETAIL A).
- 4.- THE FILTER BAG MAY EXTEND TO THE BOTTOM OF THE INLET BOX PROVIDED THE OUTLET PIPE IS UNOBSTRUCTED.
- 5.- FLOWS SHALL NOT BE ALLOWED TO BYPASS THE BAG. THE BAG OR ITS FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET, EXCEPT AS SHOWN FOR FLOOD RELEASE.
- 6.- INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.
- 7.- THIS DETAIL IS SCHEMATIC AND MUST BE ADJUSTED FOR DIFFERENT DI TYPES.



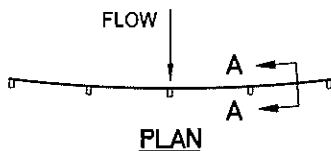
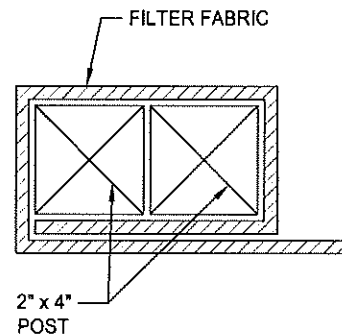
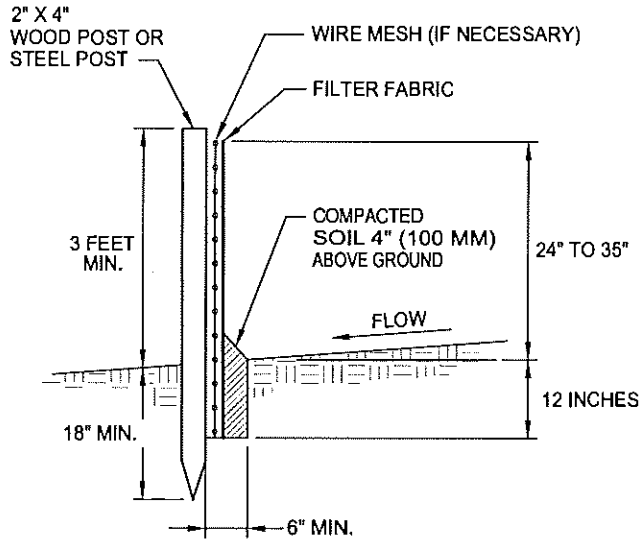
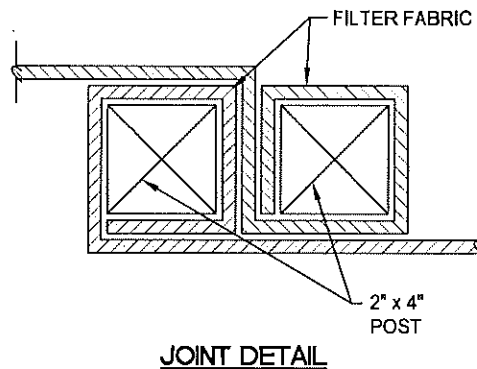
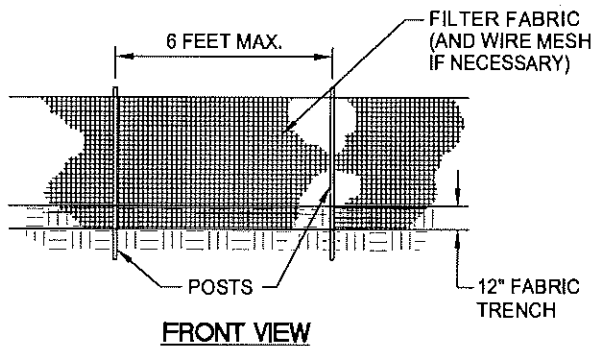
**DETAIL A**

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**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

**STORM DRAIN INLET  
FILTER BAG**

APPR'D BY: *DOB* NO SCALE  
DATE: MAY 2007 DWG. NO. **Q - 30**



**NOTES:**

1. SILT FENCE SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH.
2. FILTER FABRIC SHALL BE PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAR FOOT AT 20 PERCENT MAXIMUM ELONGATION AND CONTAINING ULTRAVIOLET INHIBITORS. FILTER FABRIC SHALL RETAIN A MINIMUM OF 85% OF THE SOIL, BY WEIGHT, BASED ON SIEVE ANALYSIS, BUT IS NOT FINER THAN AN EQUIVALENT OPENING SIZE OF 70. WHEN STANDARD STRENGTH FABRIC IS USED, A WIRE MESH SUPPORT SHALL BE SECURELY FASTENED TO THE UPSLOPE SIDE OF POSTS.
3. SUPPORT POSTS SHALL BE A MINIMUM 3.5' LONG 2"x4" WOOD POSTS OR 'T' SECTION FENCE POSTS DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART. FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH 1 INCH STAPLES OR 16 GAUGE WIRE TIES SPACED A MAXIMUM OF 6 INCHES APART.
4. A 12 INCH FABRIC TRENCH SHALL BE EXCAVATED ALONG THE UPHILL SIDE OF SILT FENCE POSTS. THE BOTTOM EDGE OF THE FABRIC SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACKFILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FILTER FABRIC.
5. CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.

**NOTES:**

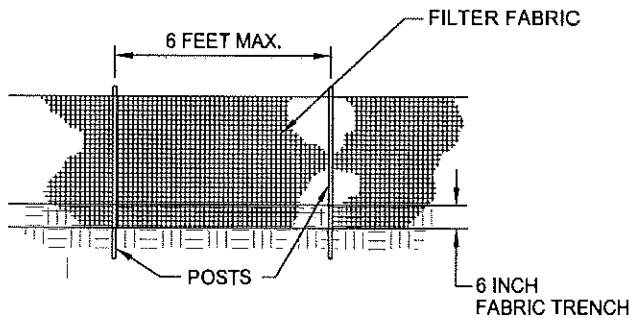
- 1.- CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER. IN NO CASE SHALL THE REACH LENGTH EXCEED 150M.
- 2.- THE LAST 8 FT. OF FENCE SHALL BE TURNED UP SLOPE.
- 3.- OVERLAP STAKES, AND FOLD FENCE FABRIC TO AROUND EACH STAKE ONE FULL TURN.
- 4.- FOR END STAKE CONDITION FOLD FENCE FABRIC AROUND (2) STAKES (1) FULL TURN AND SECURE WITH (4) STAPLES.

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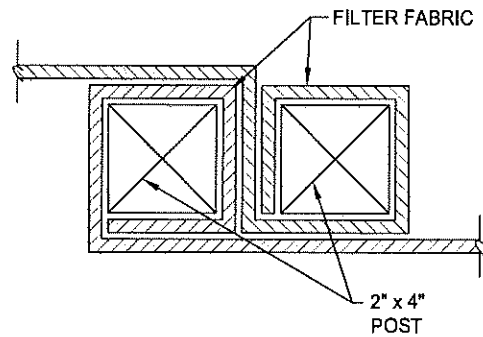
**CITY OF SACRAMENTO**  
DEPARTMENT OF TRANSPORTATION

**SILT FENCE - 36"**

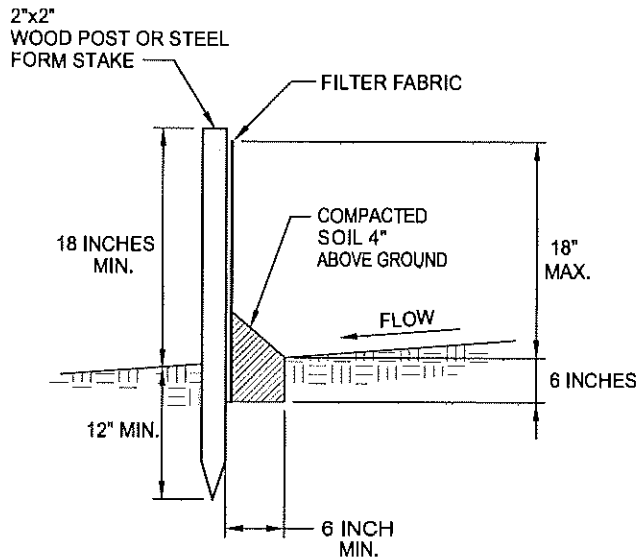
APPR'D BY: *D. B. J.* NO SCALE  
DATE: MAY 2007 DWG. NO. **Q - 50**



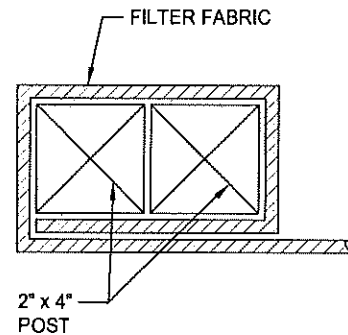
**FRONT VIEW**



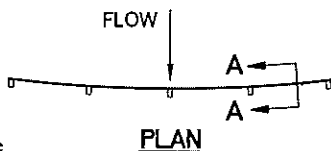
**JOINT DETAIL**



**SECTION A-A**



**END STAKE DETAIL**



**PLAN**

**NOTES:**

**NOTES:**

- 1.- CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER. IN NO CASE SHALL THE REACH LENGTH EXCEED 150M.
- 2.- THE LAST 8 FT. OF FENCE SHALL BE TURNED UP SLOPE.
- 3.- OVERLAP STAKES, AND FOLD FENCE FABRIC TO AROUND EACH STAKE ONE FULL TURN.
- 4.- FOR END STAKE CONDITION FOLD FENCE FABRIC AROUND (2) STAKES (1) FULL TURN AND SECURE WITH (4) STAPLES.

1. SILT FENCE SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH.
2. FILTER FABRIC SHALL BE PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAR FOOT AT 20 PERCENT MAXIMUM ELONGATION AND CONTAINING ULTRAVIOLET INHIBITORS. FILTER FABRIC SHALL RETAIN A MINIMUM OF 85% OF THE SOIL, BY WEIGHT, BASED ON SIEVE ANALYSIS, BUT IS NOT FINER THAN AN EQUIVALENT OPENING SIZE OF 70. WHEN STANDARD STRENGTH FABRIC IS USED, A WIRE MESH SUPPORT SHALL BE SECURELY FASTENED TO THE UPSLOPE SIDE OF POSTS.
3. SUPPORT POSTS SHALL BE A MINIMUM 24" LONG 2" X 2" (50) WOOD POSTS OR 'T' SECTION FENCE POSTS DRIVEN A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART. FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH 1 INCH STAPLES OR 16 GAUGE WIRE TIES SPACED A MAXIMUM OF 6 INCHES APART.
4. A 6 INCH FABRIC TRENCH SHALL BE EXCAVATED ALONG THE UPSLOPE SIDE OF SILT FENCE POSTS. THE BOTTOM EDGE OF THE FABRIC SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACKFILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FILTER FABRIC.
5. CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.

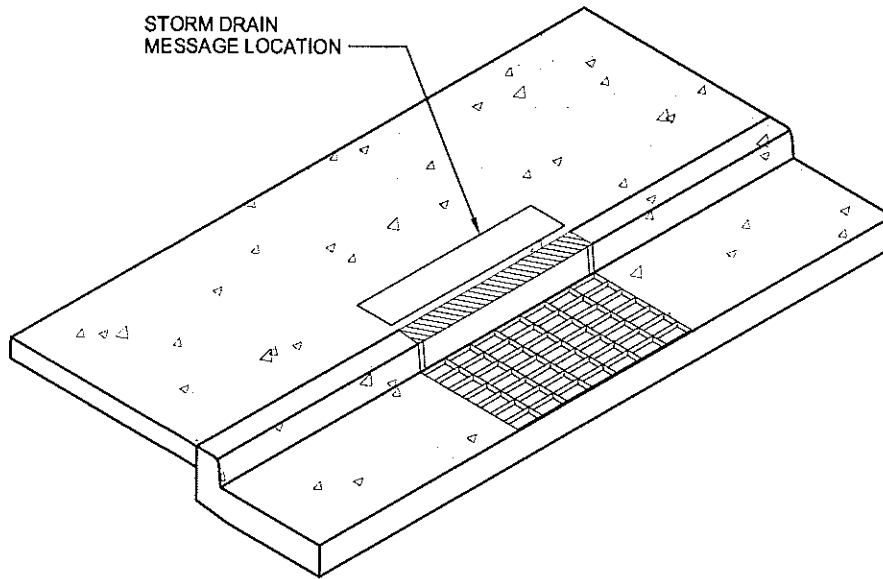
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**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

**SILT FENCE - 18"**

APPR'D BY: *DOB* NO SCALE  
DATE: MAY 2007 DWG. NO. Q - 60

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**NO DUMPING!**  
FLOWS TO RIVER



**NO DUMPING!**  
FLOWS TO CREEK



**NO DUMPING**  **I LIVE  
DOWNSTREAM**


**NOTES:**

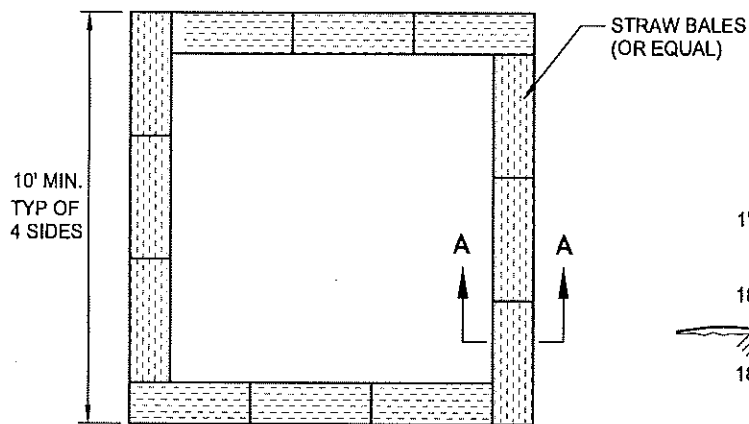
1. STORM DRAIN MESSAGE SHALL BE APPLIED IN SUCH A WAY AS TO PROVIDE A CLEAR, LEGIBLE IMAGE.
2. STORM DRAIN MESSAGE SHALL BE PERMANENTLY APPLIED DURING THE CONSTRUCTION OF THE CURB AND GUTTER USING A METHOD APPROVED BY THE LOCAL AGENCY.
3. FOR AREA DRAIN INLETS, STORM DRAIN MESSAGE SHALL BE PLACED ADJACENT AND PARALLEL TO THE LONG AXIS OF THE DRAIN.
4. LETTERS SHALL BE 1-1/2" IN HEIGHT. DIMENSIONS OF STORM DRAIN MESSAGE SHALL NOT EXCEED 12"x33".
5. IF THE MESSAGE IS STAMPED IN CONCRETE, THE DEPTH SHOULD BE APPROXIMATELY 0.25".
6. IF AN ALTERNATIVE STORM DRAIN MESSAGE IS PROPOSED, IT SHALL BE APPROVED BY THE LOCAL AGENCY.

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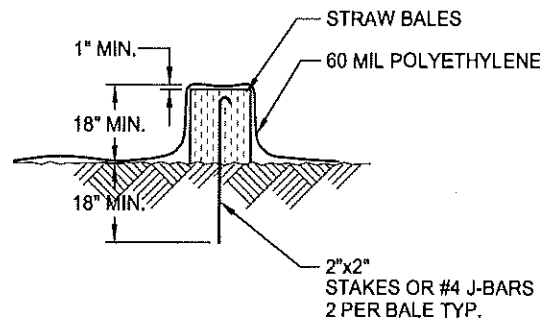
**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

**STORM DRAIN  
MESSAGE LAYOUT**

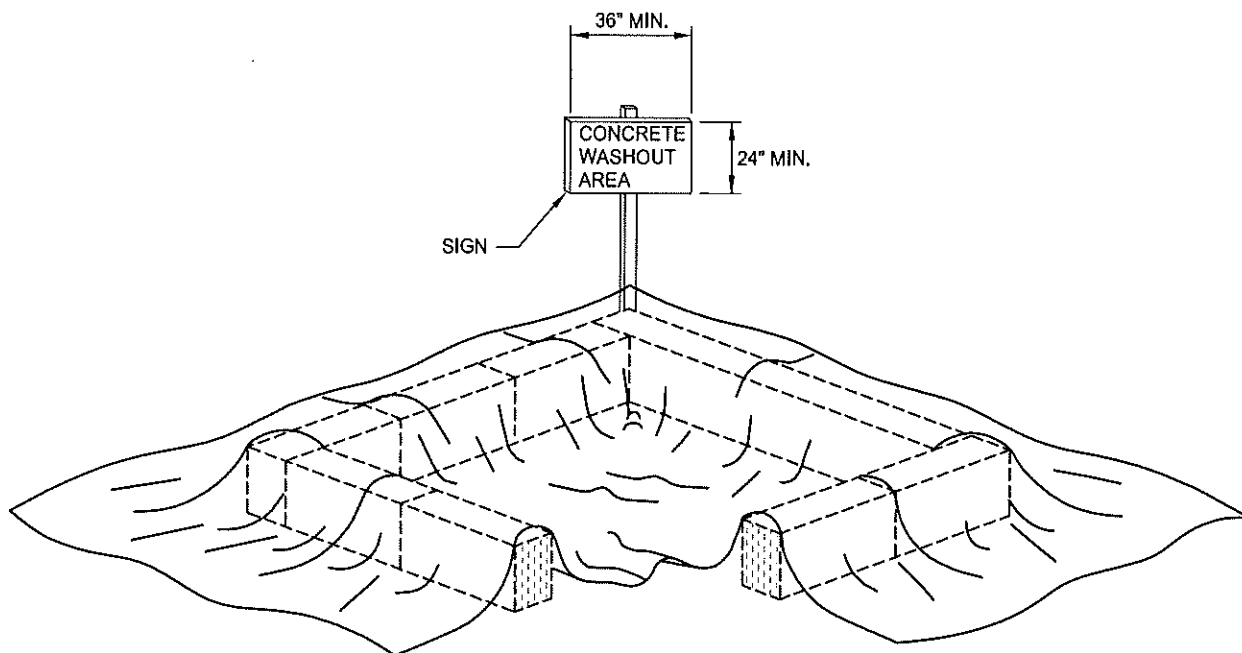
APPR'D BY:  NO SCALE  
DATE: MAY 2007 DWG. NO. **Q - 70**



**BALE CONFIGURATION**



**SECTION A-A**



THIS SECTION REMOVED FOR GRAPHICAL REPRESENTATION ONLY. STRAW BALE PERIMETER SHALL BE CONTINUOUS.

**NOTES:**

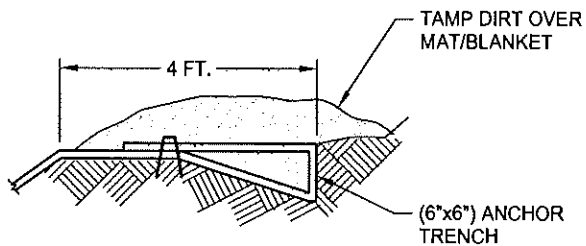
- 1.- FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT
- 2.- CONCRETE WASHOUT SHALL BE LOCATED BEHIND CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES

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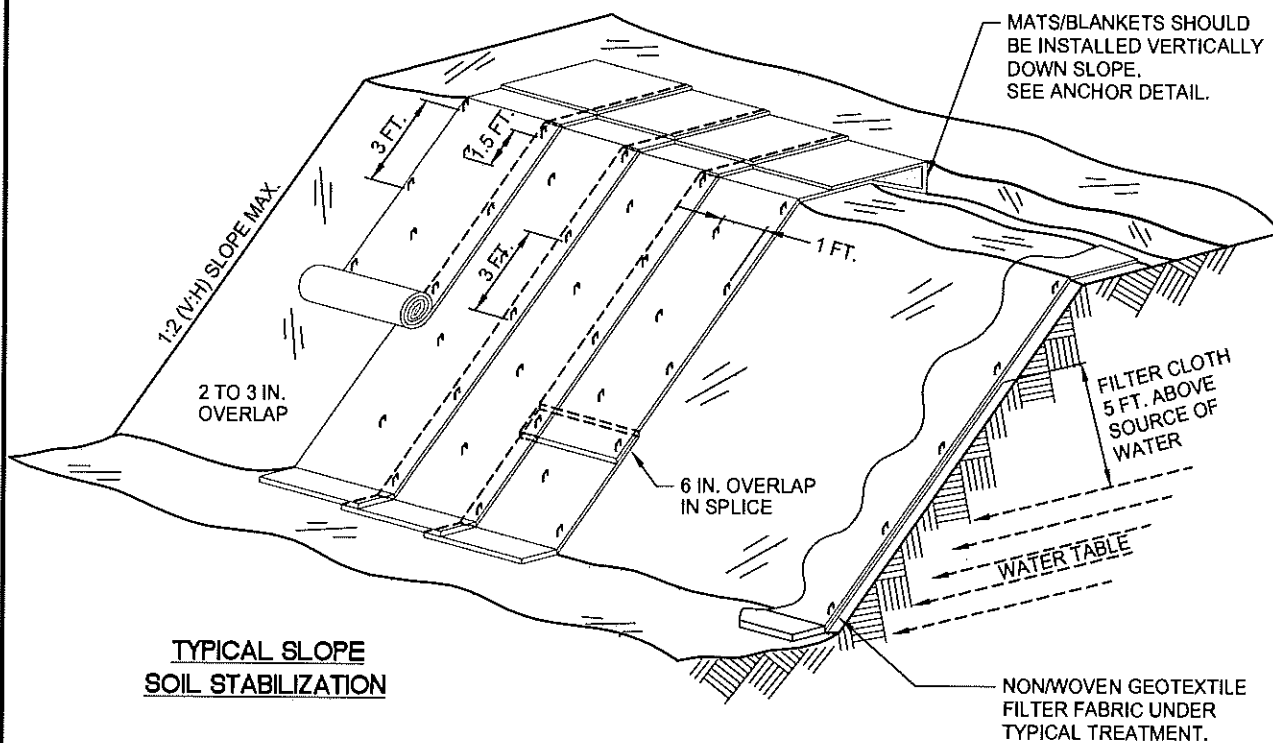
**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

**CONCRETE WASHOUT**

APPR'D BY: *DOB* NO SCALE  
DATE: MAY 2007 DWG. NO. Q - 80



**ANCHOR DETAIL**



**TYPICAL SLOPE  
SOIL STABILIZATION**

**WET SLOPE LINING**

**NOTES:**

- 1.- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- 2.- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
- 3.- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

REV.	DATE	DESCRIPTION
△		
△		
△		

**CITY OF SACRAMENTO**  
DEPARTMENT OF UTILITIES

**EROSION CONTROL BLANKETS/  
MATS SLOPE INSTALLATION**

APPR'D BY: *DOB* NO SCALE  
DATE: MAY 2007 DWG. NO. **Q - 90**

## **Administrative Penalty Guidelines For Prohibited Non-Stormwater Discharges**

Section 13.16.050 of the Sacramento City Code prohibits the discharge of non-stormwater that enters the City's storm drain system. City Code section 13.16.150 authorizes various enforcement actions for violations of section 13.16.050, including the imposition of administrative penalties. Administrative penalties for violations of section 13.16.050 are imposed pursuant to the City's general administrative penalty ordinance, Sacramento City Code section 1.28.010. This ordinance provides the following guidance for determining administrative penalty amounts:

***Amount of Administrative Penalty.*** *Unless the city council has by resolution or by ordinance adopted a separate and distinct administrative penalty for the particular violation, the amount of the administrative penalty to be imposed shall be set by the department head or his or her designee responsible for issuing the administrative penalty order. Each day a violation continues or occurs constitutes a separate violation. Unless otherwise provided in this code, administrative penalties may be imposed in any amount not less than one hundred dollars (\$100.00) nor more than twenty-five thousand dollars (\$25,000.00) per violation. In determining the amount of the administrative penalty to be imposed, the city official shall consider factors including but not limited to the seriousness of the violation, the responsible party's efforts to correct the violation, the injury/damage, if any, suffered by any member of the public, any instances in which the responsible party has been in violation of the same or similar code provisions in the previous three years, the amount of city staff time which was expended investigating or addressing the violation, and the amount of administrative penalties which have been imposed in similar situations. The amount of the administrative penalty shall be set according to the following schedule:*

- a. *Level A violations are violations that present a substantial probability that death or serious physical harm to the public at large or person(s) would result therefrom. Level A violations shall be subject to an administrative penalty of five thousand dollars (\$5,000.00) to twenty-five thousand dollars (\$25,000.00);*
- b. *Level B violations are violations that either (1) present the threat, but not substantial probability, that serious physical harm to the public at large or person(s) would result therefrom; or (2) present circumstances that are likely to cause and/or do cause serious harm to public or private property; or (3) present a conscious and willful disregard of (i) a hearing examiner's order or orders, or (ii) orders or notices of violation issued by any agency or commission authorized to issue such orders or notices. Level B violations shall be subject to an administrative penalty of two thousand five hundred dollars (\$2,500.00) to four thousand nine hundred ninety-nine dollars and ninety-nine cents (\$4,999.99);*



- c. *Level C violations are violations that present circumstances that either (1) are likely to cause and/or do cause harm to public or private property; or (2) show repeated or continuous noncompliance with (i) a hearing examiner's order or orders, or (ii) orders or notices of violation issued by any agency or commission authorized to issue such orders or notices. Level C violations shall be subject to an administrative penalty of one thousand dollars (\$1,000.00) to two thousand four hundred ninety-nine dollars and ninety-nine cents (\$2,499.99);*
- d. *Level D violations are violations other than Level A, B, or C violations. Level D violations shall be subject to an administrative penalty of one hundred dollars (\$100.00) to nine hundred dollars and ninety-nine cents (\$999.99).*

Based on the above criteria, the following guidelines are established for determining administrative penalty amounts for prohibited non-stormwater discharges.

### **Residential/Private Citizen**

#### **Non-hazardous non-stormwater discharges**

Non-hazardous materials include dirt/gravel/sand, vegetation, gray water, food waste, chlorinated pool water, detergents, etc.

#### **First Violation:**

Issuance of a notice of violation, cease and desist order and/or notice to clean and abate, but no imposition of administrative penalties, unless the City enforcement official determines that the responsible party was grossly negligent, failed to contain and clean up the prohibited material within the time frame prescribed by the City, attempted to mislead the City with incorrect information and/or refused to comply with the City's enforcement action(s).

#### **Second Violation:**

Minimum penalty of \$100, not to exceed \$999.99 (Level D). This also may be imposed for a first violation under the circumstances described above. Determination of the penalty amount within this range will be made based on consideration of the factors set forth above.

### Subsequent Violations:

If the City enforcement official has imposed an administrative penalty on the same responsible party for a violation of City Code Section 13.16.050 within the preceding three years, the maximum administrative penalty for subsequent violations of City Code Section 13.16.050 may be increased to \$2,499.99. The circumstances of the subsequent violations need not be similar to those of the previous violation(s). The maximum administrative penalty for subsequent violations may be increased to \$4,999.99 if the criteria set forth above for Level B violations are met. Determination of the penalty amount within these ranges will be made based on consideration of the factors set forth above.

### Multiple Days:

Each day a violation continues or occurs can be charged as a separate violation.

### **Hazardous non-stormwater discharges**

Hazardous materials include oils, fuels, latex, oil or water based paint, stucco or concrete waste/wastewater, sewage, antifreeze, paint thinners, herbicides, pesticides, pool chemicals, cleaners, solvents, acids, etc.

### First Violation:

Minimum penalty of \$200, not to exceed \$2,499.99 (Level C or D) for the first prohibited non-stormwater discharge identified as a hazardous material. Determination of the penalty amount within this range will be made based on consideration of the factors set forth above.

### Subsequent Violations

If the City enforcement official has imposed an administrative penalty on the same responsible party for a prohibited hazardous non-stormwater discharge within the preceding three years, the maximum administrative penalty for subsequent prohibited hazardous non-stormwater discharges may be increased to \$4,999.99 if the criteria set forth above for Level B violations are met. The circumstances of the subsequent violations need not be similar to those of the prior violation(s). Determination of the penalty amount within this range will be made based on consideration of the factors set forth above.

### Multiple Days:

Each day a violation continues or occurs can be charged as a separate violation.

## **Business**

### **Non-hazardous non-stormwater discharges**

#### **First Violation:**

Issuance of a notice of violation, cease and desist order and/or notice to clean and abate, but no imposition of administrative penalties, unless the City enforcement official determines that the responsible party was grossly negligent, failed to contain and clean up the prohibited material within the time frame prescribed by the City, attempted to mislead the City with incorrect information and/or refused to comply with the City's enforcement action(s).

#### **Second Violation:**

Minimum penalty of \$250, not to exceed \$2,499.99 (Level C or D). This also may be imposed for a first violation under the circumstances described above. Determination of the penalty amount within this range will be made based on consideration of the factors set forth above.

#### **Subsequent Violations:**

If the City enforcement official has imposed an administrative penalty on the same responsible party for a violation of City Code Section 13.16.050 within the preceding three years, the maximum administrative penalty for subsequent violations of City Code Section 13.16.050 may be increased to \$4,999.99 if the criteria set forth above for Level B violations are met. The circumstances of the subsequent violations need not be similar to those of the previous violation(s). Determination of the penalty amount within this range will be made based on consideration of the factors set forth above.

#### **Multiple Days:**

Each day a violation continues or occurs can be charged as a separate violation.

#### **BMPs:**

The responsible party may, upon approval by the City enforcement official, apply the administrative penalty amount toward the purchase of structural BMP's to eliminate any reasonable possibility of a future prohibited non-storm water discharge.

## **Hazardous non-stormwater discharges**

### First Violation:

Minimum penalty of \$500, not to exceed \$2,499.99 (Level C or D) for the first prohibited non-stormwater discharge identified as a hazardous material. The maximum administrative penalty may be increased to \$4,999.99 if the criteria set forth above for Level B violations are met. Determination of the penalty amount within these ranges will be made based on consideration of the factors set forth above.

### Subsequent Violations

If the City enforcement official has imposed an administrative penalty on the same responsible party for a prohibited hazardous non-stormwater discharge within the preceding three years, the maximum administrative penalty for subsequent prohibited hazardous non-stormwater discharges may be increased to \$4,999.99 if the criteria set forth above for Level B violations are met. The circumstances of the subsequent violations need not be similar to those of the prior violation(s). Determination of the penalty amount within this range will be made based on consideration of the factors set forth above.

### Multiple Days:

Each day a violation continues or occurs can be charged as a separate violation.

### BMPs:

The responsible party may, upon approval by the City enforcement official, apply the administrative penalty amount toward the purchase of structural BMP's to eliminate any reasonable possibility of a future prohibited non-storm water discharge.

## **Administrative Penalties of \$5,000 or More**

Administrative penalties of \$5000 or more, up to a maximum amount of \$25,000, may be imposed under circumstances meeting the criteria set forth above for Level A violations.

## **Other Enforcement Actions; Cost Recovery**

The imposition of administrative penalties for violations of City Code Section 13.16.050 shall not prevent the City or any other authorized agency from exercising any additional enforcement authority authorized or provided in any law or regulation, including without limitation any or all of the actions authorized by City Code Section 13.16.150. The imposition of administrative penalties shall be in addition to the recovery of costs incurred by the City in cleaning up and abating a violation, or the recovery of costs granted to the City after prevailing in an administrative, civil or criminal proceeding initiated under Chapter 13.16 of the City Code.



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## Weather Related Events: UOC Opening Criteria

### **1. FLOODING**

- A. Significant street flooding
- B. Sacramento and American River at warning stage
- C. Creeks, channels & canals at warning stage
- D. Levee failure
- E. Dam failure

### **2. SEVERE WEATHER**

- A. Intensity and duration of storm - Forecasted  $\frac{1}{2}$  inch of rain or more in 1-hour period, or N.O.A.A. quantitative precipitation forecast of 1.4" in 6 hour, or 1.9" in 12 hours equating to 1 in 5 year or greater storm event
- B. Sustained winds over 35 mph with rainfall
- C. Forecasted sustained freezing temperatures

\*All U.O.C. participants will be notified by phone or e-mail prior to activation of U.O.C.  
See page 5 for list of those to be notified.



**UTILITIES OPERATIONS CENTER**  
5730 24<sup>th</sup> St. Bldg. #22  
**DEPT. CONTACTS LAISONS**

**CITY MANAGER** RAY KERRIDGE 808-5704

**UTILITIES**

DIRECTOR GARY REENTS 808-1433

PUBLIC INFORMATION OFFICER JESSICA HESS 808-8260

MANAGER - FIELD SERVICES SYED RIZVI 808-6217  
DRAINAGE/FLOOD JEFF HEARD 808-6955  
WASTEWATER WARD COX 808-6216  
WATER DISTRIBUTION MIKE MALONE 808-6226

MANAGER - PLANT SERVICES MIKE YEE 808-5670

MANAGER - ENGINEERING DAVE BRENT 808-1420

MANAGER-BUSINESS SERVICES CHARLENE McKOY 808-1462

MANAGER - SOLID WASTE EDISON HICKS (INTERIM) 808-4949

**TRANSPORTATION** JERRY WAY 808-6381

**POLICE DEPARTMENT**

NORTH EXECUTIVE LT. SYLVIA MOIR 802-3004  
NORTH DAYS LT. SYLVIA MOIR 802-3004  
NORTH MIDS LT. GINA HAYNES 768-9550

SOUTH EXECUTIVE LT. JACKIE DOWDEN 804-9035  
SOUTH DAYS LT. VIRGIL BROWN 952-5084  
SOUTH SWINGS LT. DAVE PELETTA 425-4931  
SOUTH LATES LT. TOM SWEENEY 712-7923

**\*\* If the Lt. does not answer, call 264-5334 (communications) and they can raise the appropriate person via radio.**

**FIRE DEPARTMENT** ROD CHONG 808-1602

**GENERAL SERVICES**

DIRECTOR REINA SCHWARTZ 804-8367  
SUPERVISOR, CITY OPERATOR GINA KNEPP 230-4533  
FLEET ROWIE SIZEMORE 690-6551

**POLICE/SHERIFF VICES SUPERVISORS ASSIGNED TO REGIONAL TRANSIT:**

SGT. DOUG VOSKA 869-7553  
SGT. DRU DONAT 869-6432  
SGT. CHRIS CULLY 826-3317



## **I. Sewer Overflow Emergency Response Plan**

**Revised March 2007**

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Department of Utilities

Sewer Overflow Emergency Response Plan

**SECTION I: INTRODUCTION**



## Department of Utilities

# Sewer Overflow Emergency Response Plan

## SECTION I: INTRODUCTION

### INTRODUCTION

The City of Sacramento's Department of Utilities has developed this comprehensive incident response plan to be implemented in the event of an overflow from the City operated Sanitary Sewer System or Combined Sewer System. This document includes operational procedures which are to be followed in the event the overflow occurs in a residence or business, on a City street, or in/or towards a waters of the State. It includes mobilization of City resources to mitigate the effect of the incident; detailed instructions to ensure proper notification of City, County, Regional, State and Federal regulatory agencies; and provides the appropriate forms to facilitate incident documentation.

A release of raw sewage is considered a hazardous material (HazMat) incident if it meets any of the following criteria:

- exceeds 1,000 gallons and is overflowing in a residence/business
- exceeds 1,000 gallons and is overflowing into a street
- any amount of overflow flowing into or towards waters of the State.

Hazardous Materials are defined as any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or environment. An overflow/spill is defined as any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, unless permitted or authorized by a regulatory agency.

### PURPOSE AND SCOPE

The purpose of this Plan is to improve communication regarding a sewage overflow within the City of Sacramento as well as with outside agencies. It is intended to provide timely notification to responsible agencies and organizations. It provides a framework to activate resources, mitigate the long and short-term affects of the situation and to ensure appropriate clean-up activities. It provides for appropriate and complete notification of regulatory agencies as well as written documentation for reporting and cost recovery.

This Response Plan dovetails with the Department of Utilities Multi-Hazard Disaster Plan, the Sacramento Operational Area Plan, the City of Sacramento's Multi-Hazard Disaster



Plan, and the *City of Sacramento Fire Department Hazmat Emergency Response Plan*, revised March 1997.

## AUTHORITIES AND REFERENCES

### General Authorities:

- California Health and Safety Code Sections: 22502, 22503.1, 22507.1; Reference Sections 2503 (b)4, 25503.1, 2507.1, 25518, 23320
- EPA Administrative Permit Programs, The National Pollutant Discharge Elimination System, Section 122.41, 122.42
- California Water Code, Section 13271 (a) 1, 2,3; (c); (e); (f); (g); and Section 13050
- National Pollution Discharge Elimination System Permit No. CA0079111 Order No. 96090, June 20, 2000
- National Pollution Discharge Elimination System Permit No.CA0082597, May 11, 2001
- California Code of Regulations, Title 23, Section 2250
- California Government Code Section 8574.16

### Hazardous Material Authorities:

(Extracted from State OES Hazardous Material Spill/Release Notification Guidelines)

- Health & Safety Code §§25270.7, 25270.8, 25507, 22503(c)(9), 25180, 25180.7
- Health & Safety Code §§25192, 25249.5 – 25249.13
- Vehicle Code §23112.5
- Public Utilities Code §7673 (PUC General Orders #22-B, 161)
- Government Code §§51018, 8670.25.5(a), 82019
- Water Code §§13260, 13267, 13271, 13272
- California Labor Code §6409.1(a), 6409.1(b)
- Title 42, U.S. Code §§9603, 11004
- Federal Regulations (49 CFR, Parts 100-177 esp. 171.15, 171.16, and Part 263, 263.30)
- Title 8, California Code of Regulations, 342
- Title 13, California Code of Regulations, 13-1166
- Title 14, California Code of Regulations, 1722 (h)
- Title 19, California Code of Regulations, 2703, 2705
- Title 22, California Code of Regulations, 66265.56(j), 66265.196(e), 12000 et seq.
- Title 23, California Code of Regulations, 2230, 2250, 2251, 2256(b), 2257(g), 2258(a), 2259

### References:

- El Dorado Irrigation District Spill Response Procedures, October 6, 1999
- The City of San Diego Sewage Overflow Response Plan, July 2000
- County of Sacramento, Public Works Agency, Water Quality Division, Wastewater Collection System, Storm Drainage System and Creeks/Channel Maintenance Incident Response Plan (No date)



- County of Sacramento, Department of Public Works, Water Quality Division Report on State Water Resources Control Board Proposed Regulation on Reportable Quantities and Reporting Requirements for Sewage Overflows, April 25, 1988
- State Water Resources Control Board Water Discharge Requirements, May 1, 2006
- Orange County Sanitation District Procedure No. TS-ECM-SOP-001 Spill Notification Procedures, May 2, 2000
- California Office of Emergency Services, Fact Sheet, Winter Storm Preparedness Reporting Sewage Releases

## RESPONSIBILITIES

Appropriate response to a sewage spill or overflow requires cooperation and coordination between the Department of Utilities, other City Departments, and Sacramento County.

The following sections detail the roles and responsibilities of the Department of Utilities, the City Fire Department, and the Water Quality Division of the Sacramento County Public Works Agency.

### **County of Sacramento – Public Works Agency, Water Quality Division**

The Sacramento County Public Works Agency, Water Quality Division maintains 335 miles of sewage lines within the Sacramento City Limits (Refer to the Sewer Basins Map on page 10). In the event of a sewer system overflow in this portion of the City, Sacramento County personnel will respond to the call. If the spill exceeds 1,000 gallons or is flowing into/towards waters of the state, County of Sacramento will notify the City Operator. The City Operator will forward the information to the Sewer Collection Supervisor and Drainage Supervisor for action and coordination (See Section III).

### **Fire Department (Incident Command)**

The Fire Department will assume the role of City Incident Commander for any overflows 1,000 gallons or more to a street, business or residence, or **any** overflow into/towards waters of the State. In the course of their duties as the Incident Commander, the Fire Department has enforcement capabilities for clean-up of an overflow incident caused by a private party.

The Fire Department, when dispatched to the scene of a sewer system overflow, will activate their *City of Sacramento Hazardous Materials Emergency Response Plan*. Under the Plan they will call a *Level I*, *Level II*, or *Level III* resource response.

### **Level I Incident (Known as a Level I Hazmat Incident (HMI))**

Spills, leaks, ruptures, damaged containers, and/or fires involving hazardous materials which can be contained, extinguished, and/or abated utilizing equipment, supplies, and resources immediately available to the first responders (F.R.O.) of the fire department having jurisdiction, and;

The incident can properly be handled by fire department personnel whose qualifications are limited to and do not exceed the scope of training explained in SARA TITLE III (OSHA), Title 29 CFR Section 1910 with reference to FIRST RESPONDER, and as a minimum are trained



to *First Responder Operational* (F.R.O.) in accordance with National Fire Protection Association Standard #472, and;  
Hazardous materials incident which may require the removal and excavation of civilians within the perimeter of incident scene isolation, and; Hazardous materials incident which does not exceed the necessity to utilize standard structural/flammable liquid protective equipment immediately available to the first responder.

### **Level II Incident (Known as a Level II HMI)**

A hazardous materials incident which may require the use of any kind of specialized protective equipment, tool, or knowledge not available to and beyond the scope of the first responder of the agency having jurisdiction, and/or;

A hazardous materials incident which can only be identified, tested, sampled, contained, extinguished, and/or abated utilizing the expertise and resources of the Sacramento Fire Department Hazardous Materials Response Team, and/or;

A hazardous materials incident which may require the removal and evacuation of civilians within the area of the fire department having jurisdiction which may encompass several buildings, and/or;

Fires involving hazardous materials that, due to the complexities of the chemical involved, are permitted to burn for a controlled period of time or are allowed to consume themselves or which may require special extinguishing techniques and objectives, and/or;

The incident can only be properly handled by fire department personnel whose qualifications meet or exceed the scope of training explained in SARA TITLE III (OSHA), Title 29 CFS Section 1910 with reference to HAZARDOUS MATERIALS SPECIALIST, and as a minimum are trained to *Hazardous Materials Technician/Specialist* (H.M.T./H.M.S.) in accordance with National Fire Protection Association Standard #472.

### **Level III Incident (Known as a Level III HMI)**

Hazardous materials incident which, in the opinion of the Incident Commander of the agency having jurisdiction, or the Officer of the Sacramento Fire Department Hazardous Materials Response Team (HMRT), requires at least two Sacramento Fire Department Hazardous Materials Response Teams on scene, and/or;

The Sacramento Fire Department De-Con Team is required on scene for HMRT incident support, and/or civilians or personnel have become contaminated, and/or;

Hazardous materials incident can only be contained and/or abated only by utilizing the highly specialized equipment, services, or supplies available from special municipal, environmental, and industrial response personnel who are in support of the activities of the HMRT. Such equipment, techniques, and qualified personnel are in excess of or are in addition to those available from the on-scene HMRT, and/or;

Fires involving hazardous materials that are allowed to burn due to the ineffectiveness or dangers of the use of any kind of extinguishing agent, or the unavailability of the proper



extinguishing agent, or the material is highly reactive, water-reactive, or may be prone to sudden polymerization; and/or there is a real threat of large container failure or an explosion, detonation, BLEVE (Boiling Liquid Expanding Vapor Explosion), or container failure has already occurred, and/or;

Hazardous materials incident which requires evacuation of civilians from a large geographical area, or evaluation has extended across jurisdictional boundaries; and/or there are serious civilian injuries and/or death as a result of the hazardous materials incident, and/or;

The hazardous materials incident has become one of a multi-agency involvement.

### **Fire Department – Response to a Hazardous Material Incident**

Fire Department emergency response to a hazardous material spill activates the Incident Command System. Under this system, five (5) sections can be activated. They are:

1. Incident Commander

The Incident Command's responsibility is the overall management of the incident. On most incidents the command activity is carried out by a single Incident Commander.

2. Operations Section Chief

The Operations Section Chief is responsible for the management of all operations directly applicable to the primary mission. The Operation Section Chief activates and supervises organization elements in accordance with the Incident Action Plan and directs its execution. The Operations Chief also directs the preparation of unit operational plans, requests or releases resources, makes expedient changes to the Incident Action Plan as necessary, and reports such to the Incident Commander.

3. Logistics Section Chief

The Logistics Section Chief is responsible for providing facilities, services, and material in support of the incident. The Section Chief participates in development and implementation of the Incident Action Plan.

4. Planning Section Chief

The Planning Section Chief is responsible for the collection, evaluation, dissemination, and use of information about the development of the incident and status of resources. Information is needed to 1) understand the current situation, 2) predict probable course of incident events, and 3) prepare alternative strategies and control operations for the incident.

5. Financial Section Chief

The role of the Financial Section Chief is to supervise the financial support, response and recovery for the incident, and activate necessary accounting procedures.



### **Utilities Department – Response to a Hazardous Material Incident:**

Field/Plant Services Division personnel will respond to all reports of sewage overflows in any location of the City of Sacramento, including rivers, canals, streams, the combined system, plants, and discharges contained in the appropriate NPDES permits.

They will ensure notification has been made to the Fire Department any time the spill is considered a hazardous nature incident, exceeds 1,000 gallons, or is traveling into or towards waters of the State.

**1. Unified Command:**

Field Services Division Manager, Plant Services Division Manager, or Designees will participate in the role of Unified Commander and will report to the Incident Commander from the Fire Department.

**2. Operations Section:**

Sewer System Superintendent or Plant Services Superintendent will report to the Operations Section Chief from the Fire Department. This person is responsible for continual updates of situation information and technical system operation considerations. This section will brief all incoming department personnel responding to the incident.

**3. Planning Section:**

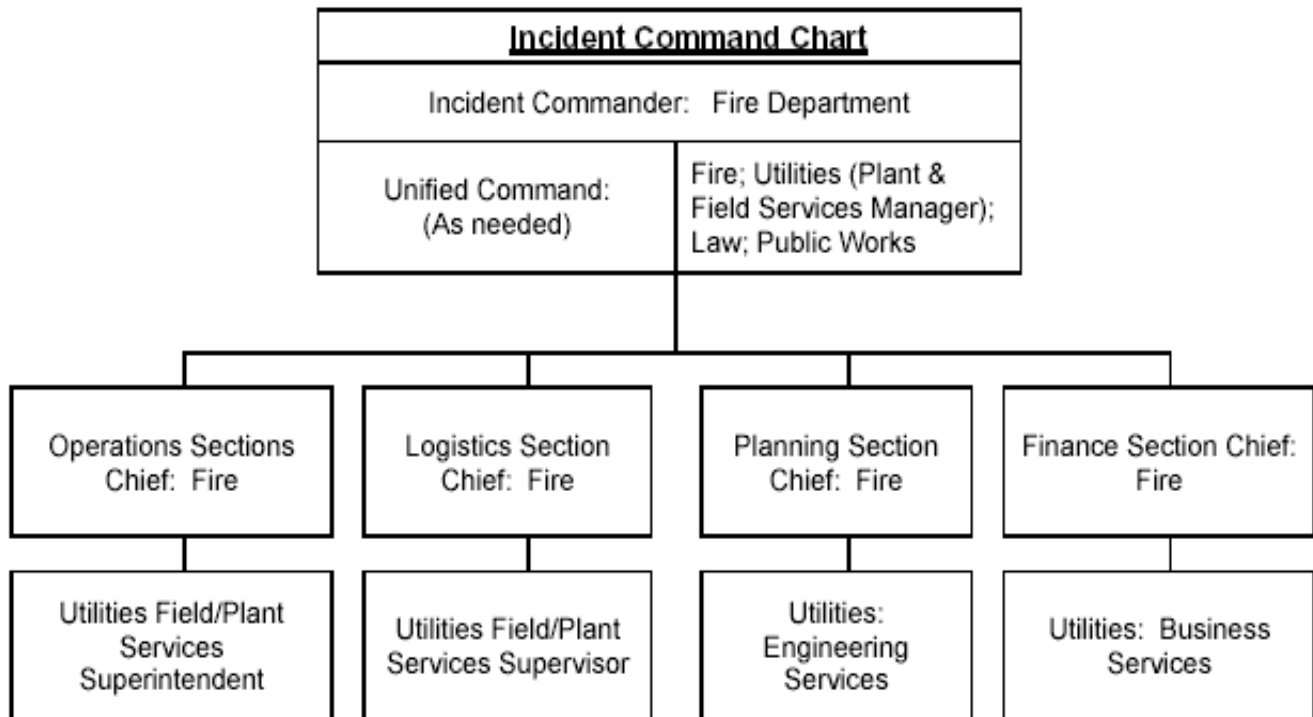
The Engineering Services Division will assure department planning functions. If needed, they will be dispatched to the scene and report to the Fire Planning Section Chief. In any event, this group will prepare and submit an overflow report on spills 1,000 gallons or greater to the Regional Water Quality Control Board. They will also provide technical support to reporting divisions and departments.

**4. Finance Section (Business Services Division):**

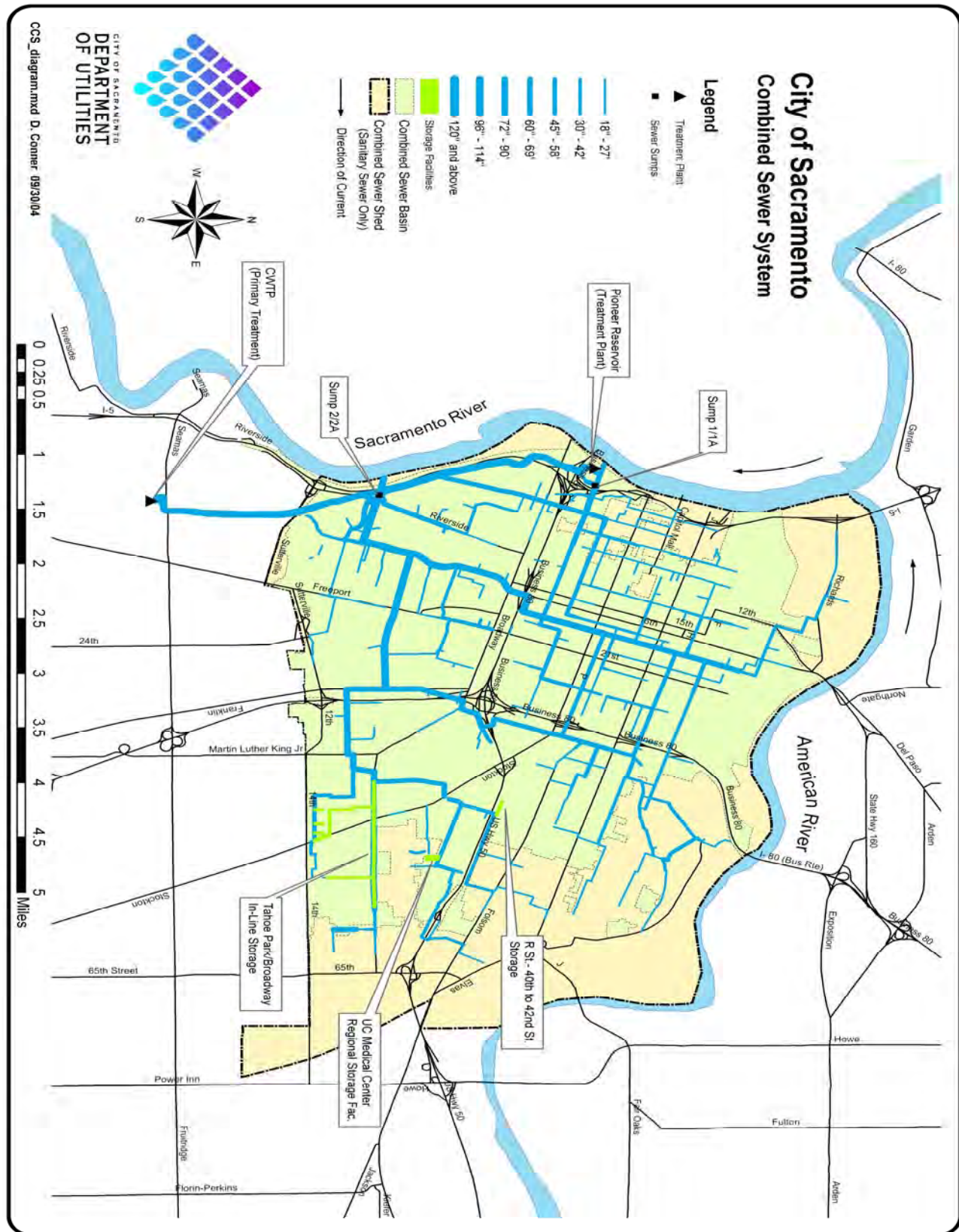
This division of the Department of Utilities will collect necessary cost information and establish cost centers for future reporting and financial tracking.

**5. Logistics Section:**

Field Services or Plant Services personnel will be assigned to the logistics section on an as needed basis which will be determined by Unified Command. This group will procure necessary supplies and services to assist in the containment and clean-up operations.









## Department of Utilities

# Sewer Overflow Emergency Response Plan

## SECTION II: PROCEDURE

### NOTIFICATION OF INCIDENT

The Department of Utilities' City Operator is notified by Department personnel, the City's 911 Emergency System, or by other City personnel or outside agencies. Once notified, the actions outlined beginning on page 16 will be implemented.

### EVALUATE AND ESTIMATE

The Sewer Collection Field Crew will evaluate the incident and attempt to estimate the volume of overflow.

### LOCATION OF OVERFLOW:

The location of the overflow will determine which actions and notifications will have to be made. Location is separated into three categories:

- Residence or Business (see page 15)
- Streets (see page 18)
- Waters of the State – into or towards (see page 21). Waters of the State include any surface water or groundwater, including saline waters, within the boundaries of the state. Under this definition, this category includes all ditches, canals, streams, or rivers.

### RESPONSE/ACTIONS

Response and notification vary depending upon the locations and/or amount of overflow. Primary response begins with the Sewer Collection Supervisor who dispatches a field crew for initial size-up of the incident. All appropriate notification calls will be made and trigger the response from within the Department of Utilities.

The Sewer Collection Superintendent shall ensure that the Fire Department is notified of the incident. The Fire Department shall be called to respond in the following situations:

- 1,000 gallons or more flowing into a business or residence
- 1,000 gallons or more flowing into the street
- **Any amount of overflow** into or towards waters of the State



## **SEWER OVERFLOWS INTO RESIDENCE/BUSINESS**

### **911 Dispatch**

- ☐ Notify Regional Fire Communications

### **Regional Fire Communications Center**

- ☐ Notify City Operator (Dept. of General Services)

### **City Operator (Dept. of General Services)**

- ☐ Complete Sewer Overflow/Spill Notification Form, see page 26
  - identify and document caller
  - request nature of overflow
  - determine start time of overflow, if possible
- ☐ During business hours, notify Sewer Collection Supervisor. If Supervisor cannot be reached, notify the Sewer Collection Superintendent.
- ☐ After hours, notify the On-Call Sewer Collection Supervisor

### **Sewer Collection Supervisor**

- ☐ Dispatch field crew to scene
- ☐ Notify Drainage Collection Superintendent or On-Call Supervisor
- ☐ Notify City of Sacramento's Risk Management Office or Contractor
- ☐ Notify Control 12 to dispatch Plant Services personnel if the overflow enters into a drop inlet
- ☐ Photograph the incident
- ☐ Document the incident
  - ♦ Sewer Overflow Notification Checklist, see page 27
  - ♦ City of Sacramento's Incident/Loss Report, see page 38
- ☐ Initiate clean-up procedures

### **Sewer Collection Field Crew**

- ☐ Proceed to location of overflow
- ☐ Determine Responsibility – property owner or City
- ☐ If the overflow is the City's responsibility
  - ♦ Relieve
  - ♦ Contain
  - ♦ Clean-up

### **Sewer Collection Superintendent/Designee**

- ☐ Complete Sewer Overflow Notification Checklist, if necessary, see page 27
- ☐ Review incident documentation
- ☐ Send Incident/Loss Report to Risk Management



**FOR SEWER OVERFLOWS IN RESIDENCE/BUSINESS WHICH ARE 1,000 GALLONS OR GREATER, ALSO COMPLETE THE FOLLOWING PROCEDURES.**

**Sacramento County Water Quality**

- ☐ Notify City Operator (Dept. of General Services)

**City Operator (Dept. of General Services)**

- ☐ Ensure Fire Department is notified
- ☐ If spill occurs in County maintained lines, notify Sewer Collection and Drainage Collection Supervisors

**Sewer Collection Supervisor**

- ☐ Notify Sewer Collection Superintendent
- ☐ Ensure Fire Department has been notified and is en route to scene to activate hazardous material command structure

**Sewer Collection Superintendent**

- ☐ Notify Field Services Division Manager/Designee or the Plant Services Division Manager/Designee
- ☐ Complete Sewer Overflow Notification Checklist, if necessary, see page 27

**Field Services Division or Plant Services Division Manager/Designee**

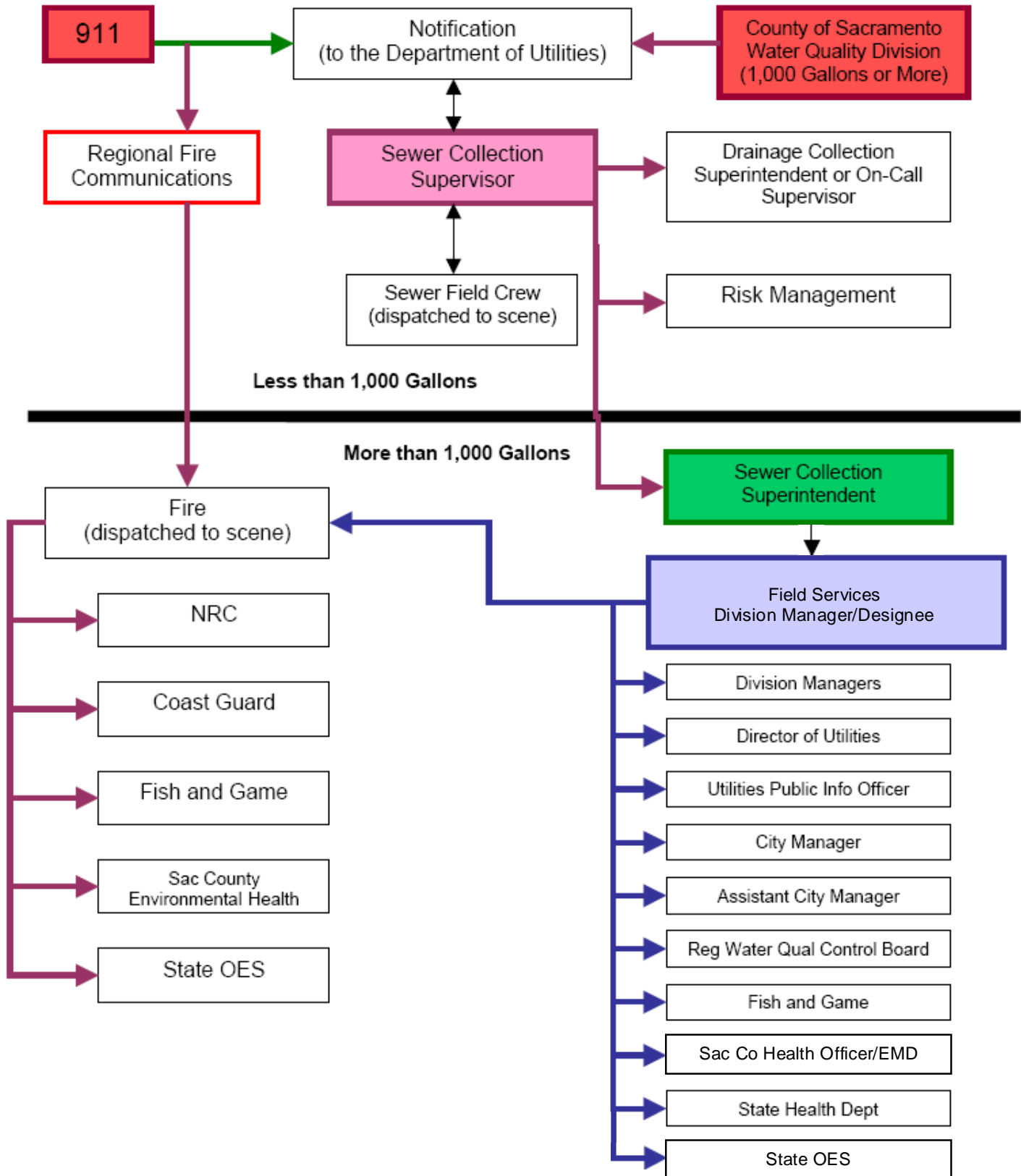
- ☐ The Field Services Division Manager/Designee or Plant Services Division Manager/Designee will coordinate to notify the following:
  - ♦ Division Managers
  - ♦ Director of Utilities
  - ♦ Department of Utilities Public Information Officer
  - ♦ City Manager
  - ♦ Assistant City Manager
  - ♦ Regional Water Quality Control Board
  - ♦ State Department of Fish and Game
  - ♦ Sacramento County Health Officer
  - ♦ State Department of Health Services
- ☐ Complete Sewer Overflow Notification Checklist, see page 27

**Engineering Services Division, Water Quality Section**

- ☐ Prepare and submit an overflow report to Regional Water Quality Control Board within 72 hours of incident



**Notification Flow Chart**  
**Sewer Overflow into a Residence or Business**





## **SEWER OVERFLOWS INTO STREETS**

### **911 Dispatch**

- ☐ Notify Regional Fire Communications

### **Regional Fire Communications Center**

- ☐ Notify City Operator (Dept. of General Services)

### **City Operator (Dept. of General Services)**

- ☐ Complete Sewer Overflow/Spill Notification Form, see page 26
  - ♦ identify and document caller
  - ♦ request nature of overflow
  - ♦ determine start time of overflow, if possible
- ☐ During business hours, notify Sewer Collection Supervisor. If Supervisor cannot be reached, notify the Sewer Collection Superintendent.
- ☐ After hours, notify the On-Call Sewer Collection Supervisor

### **Sewer Collection Supervisor**

- ☐ Notify Drainage Collection Superintendent or On-Call Supervisor
- ☐ Notify Plant Services Division personnel
- ☐ Photograph the incident
- ☐ Document the incident
  - ♦ Sewer Overflow Notification Checklist, see page 27
  - ♦ City of Sacramento's Incident/Loss Report, see page 28
- ☐ If the street(s) is unsafe, notify the City Operator and ask them to notify the Streets Division of the situation

### **Sewer Collection Field Crew**

- ☐ Proceed to location of spill
- ☐ Relieve
- ☐ Contain
- ☐ Clean-up

### **Sewer Collection Superintendent/Designee**

- ☐ Complete Sewer Overflow Notification Checklist, if necessary, see page 27
- ☐ Review incident documentation
- ☐ Send Incident/Loss Report to Risk Management
- ☐ Forward copy of Incident/Loss Report and field report to Engineering Services Division's Water Quality Section

### **Plant Services Division Superintendent or On-Call Supervisor**

- ☐ Determine if any plants are causing or being affected by the overflow. If so,
  - ♦ isolate the plant and shut it down
  - ♦ document and prepare field report
  - ♦ forward copy of field report to Engineering Services Division's Water Quality Section within 24 hours of incident





**FOR SEWER OVERFLOWS INTO STREETS WHICH ARE 1,000 GALLONS OR GREATER INTO STREETS ALSO COMPLETE THE FOLLOWING PROCEDURES.**

**Sacramento County Water Quality**

- ☐ Notify City Operator (Dept. of General Services)

**City Operator (Dept. of General Services)**

- ☐ Ensure Fire Department is notified
- ☐ If spill occurs in County maintained lines, notify Sewer Collection and Drainage Collection Supervisors

**Sewer Collection Supervisor**

- ☐ Notify Sewer Collection Superintendent
- ☐ Ensure Fire Department has been notified and is en route or on scene to activate hazardous material incident command structure

**Sewer Collection Superintendent**

- ☐ Notify Field Services Division Manager/Designee or the Plant Services Division Manager/Designee
- ☐ Complete Sewer Overflow Notification Checklist, if necessary, see page 27

**Field Services Division or Plant Services Division Manager/Designee**

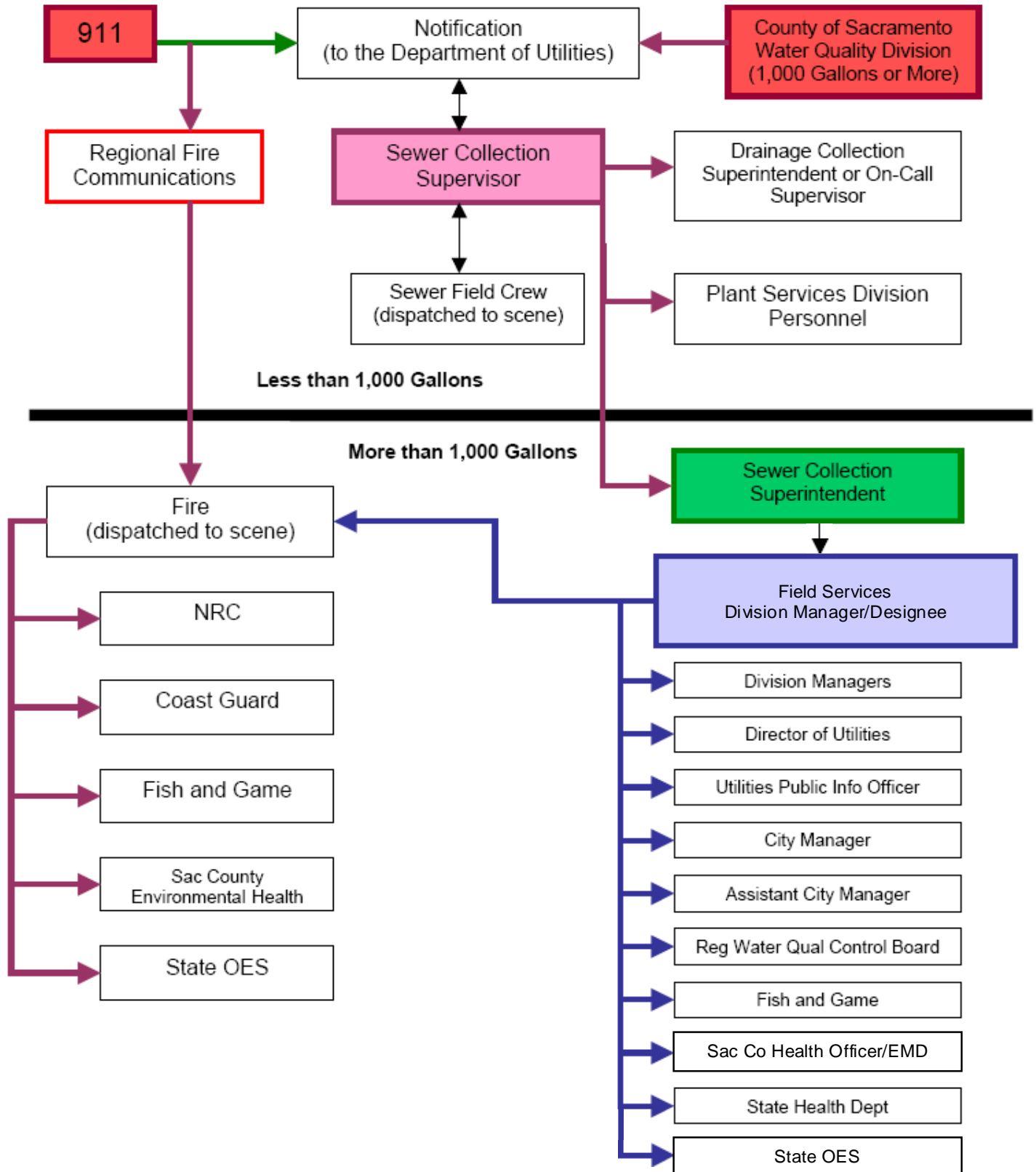
- ☐ The Field Services Division Manager/Designee or Plant Services Division Manager/Designee will coordinate to notify the following:
  - ♦ Division Managers
  - ♦ Director of Utilities
  - ♦ Department of Utilities Public Information Officer
  - ♦ City Manager
  - ♦ Assistant City Manager
  - ♦ Regional Water Quality Control Board
  - ♦ State Department of Fish and Game
  - ♦ Sacramento County Health Officer
  - ♦ State Department of Health Services
- ☐ Complete Sewer Overflow Notification Checklist, see page 27

**Engineering Services Division, Water Quality Section**

- ☐ Prepare and submit an overflow report to Regional Water Quality Control Board within 72 hours of incident



**Notification Flow Chart  
 Sewer Overflow into the Street**







**SEWER OVERFLOW FLOWING INTO OR EXPECTED  
TO ENTER WATERS OF THE STATE**

**911 Dispatch**

- ☐ Notify Regional Fire Communications

**Sacramento County Water Quality**

- ☐ Notify City Operator (Dept. of General Services)

**Regional Fire Communications Center**

- ☐ Notify City Operator (Dept. of General Services)

**City Operator (Dept. of General Services)**

- ☐ Ensure Fire Department has been notified
- ☐ If spill occurs in County maintained lines, notify Sewer Collection and Drainage Collection Supervisors
- ☐ Complete Sewer Overflow/Spill Notification Form, see page 26
  - ♦ identify and document caller
  - ♦ request nature of overflow
  - ♦ determine start time of overflow, if possible
- ☐ During business hours, notify Sewer Collection Supervisor. If Supervisor cannot be reached, notify the Sewer Collection Superintendent.
- ☐ After hours, notify the On-Call Sewer Collection Supervisor

**Sewer Collection Supervisor**

- ☐ Ensure Fire Department has been notified and is en route or is on scene to activate hazardous materials command structure
- ☐ Notify Plant Services Division Manager
- ☐ Notify Sewer Collection Superintendent
- ☐ Notify Drainage Collection Superintendent or On-Call Supervisor
- ☐ Notify Plant Services Wastewater Superintendent or On-Call Supervisor
- ☐ Photograph the incident
- ☐ Document the incident
  - ♦ Complete Sewer Overflow Notification Checklist, see page 27

**Sewer Collection Superintendent**

- ☐ Notify Field Services Division Manager

**Sewer Collection Field Crew**

- ☐ Immediately notify Supervisor
- ☐ If possible, relieve, contain, and clean-up

**Plant Services Division Wastewater Superintendent or On-Call Supervisor**

- ☐ Notify Plant Services Division Manager
- ☐ Determine if any plants are causing or being affected by the overflow. If so,
  - ♦ isolate the plant and shut it down
  - ♦ document and prepare field report



- ♦ forward copy of field report to Engineering Services Division's Water Quality Section within 24 hours of incident
- ♦ communicate findings to Sewer Collection Superintendent or On-Call Supervisor and Plant Services Division Manager

**Field Services Division or Plant Services Division Manager/Designee**

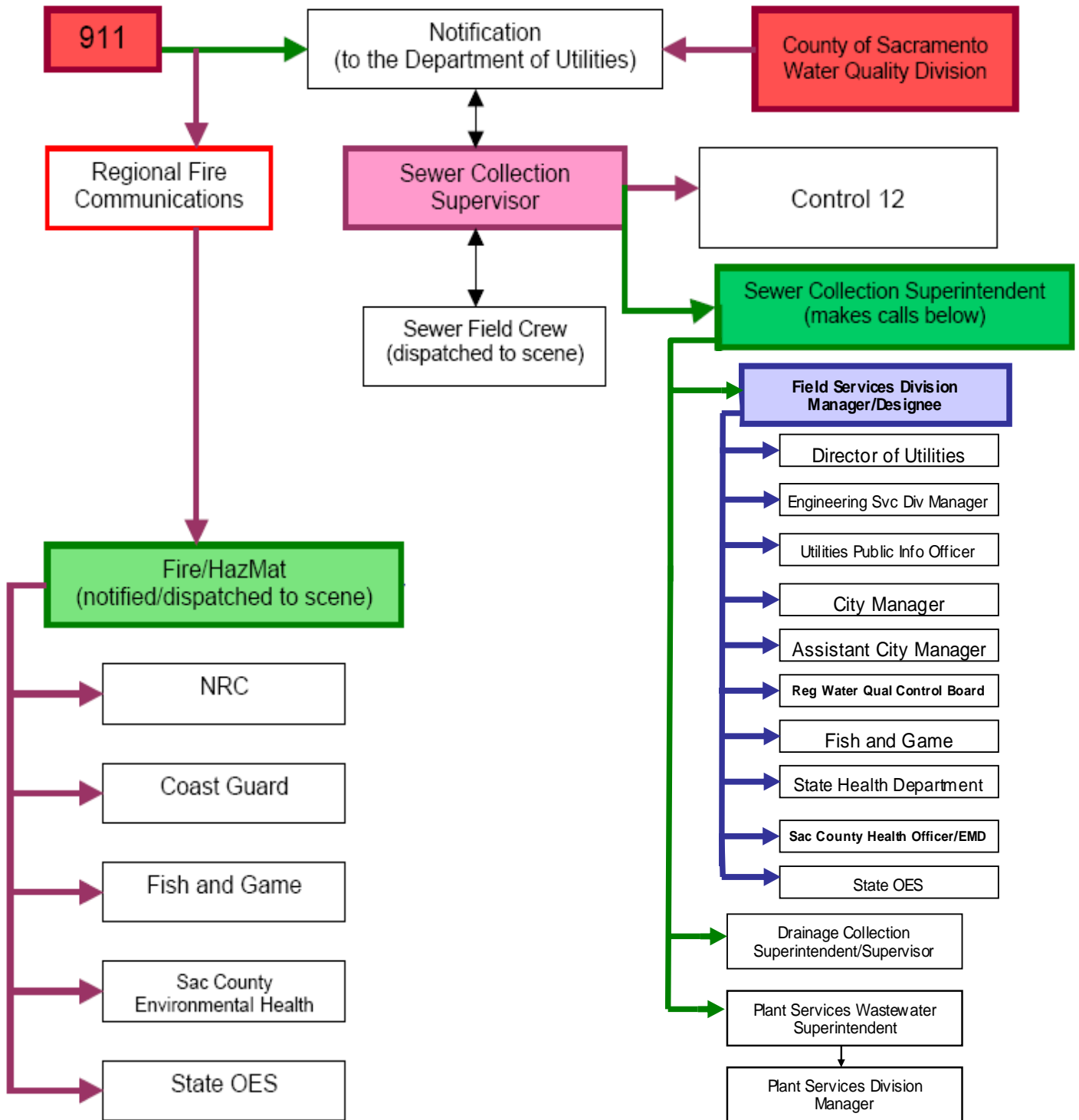
- ☐ The Field Services Division Manager/Designee or Plant Services Division Manager/Designee will coordinate to notify the following:
  - ♦ Director of Utilities
  - ♦ Engineering Services Division Manager
  - ♦ Department of Utilities Public Information Officer
  - ♦ City Manager
  - ♦ Assistant City Manager
  - ♦ Regional Water Quality Control Board
  - ♦ State Department of Fish and Game
  - ♦ State Department of Health Services
  - ♦ Environmental Management Division (EMD)/Sacramento County Health Officer
  - ♦ Office of Emergency Services (OES)
- ☐ Complete Sewer Overflow Notification Checklist, see page 27

**Engineering Services Division, Water Quality Section**

- ☐ Prepare and submit an overflow report to Regional Water Quality Control Board within 72 hours of incident



**Notification Flow Chart**  
**Sewer Overflow Into or Expected to Enter Waters of the State**  
**Any Amount of Flow**





Department of Utilities

Sewer Overflow Emergency Response Plan

**SECTION III: FORMS**



## CITY OF SACRAMENTO – DEPARTMENT OF UTILITIES SEWER OVERFLOW NOTIFICATION LIST

Name	Office	Fax	Cellular	Pager	Home/After Hours
City Operator	264-5011				
<b>Administration</b>					
Gary Reents	808-1433	808-1497	425-7092		967-8912
Jessica Hess	808-8260	808-8658	698-1705	810-7411	392-4714
Control 12 (weekdays)	808-5226	808-7955			
Sac Control (weekends/after hours)	808-4961	808-4994	798-7587		
<b>Field Services</b>					
Syed Rizvi	808-6217	808-6293	205-5475		(530) 758-5833
Mike Malone	808-6226	421-4596	997-5139	810-6083	
Ward Cox	808-6216	808-6328	996-2901	810-6113	386-1034
Jeff Heard	808-6955	391-3128	919-6493	810-6103	983-3289
<b>Plant Services</b>					
Mike Yee	808-5670	808-7955	798-7575		391-9601
Dave Phillips	808-5652	808-7955	952-8809	810-6024	682-1529
Mark Laurenzi	808-5674	808-7955	761-9349		(209) 745-4580
Clark Munkers	808-5653	808-7955	952-8803	810-6030	(530) 633-9115
	808-5651	808-7955	715-1675		
Ron Myers	808-3765	808-3780		810-6123	682-9272
<b>Engineering Services</b>					
Dave Brent	808-1420	808-1497	834-6715		(530) 759-9232
Bill Busath	808-1434	808-1497	801-4697		487-8416
Rick Batha	808-1448	808-1497	712-9373		(530) 758-3122
Bill Zehnder	808-1411	808-1497	826-0465	810-6072	660-1757
<b>City Manager's Office</b>					
Ray Kerridge, City Manager	808-1930				
Marty Hanneman, Assistant City Mgr.	808-7508				
Cassandra Jennings, Asst. City Mgr.	808-8888				
John Dangberg, Assistant City Mgr.	808-1222				
Gus Vina, Assistant City Mgr.	808-1738				
Amy Williams, Public Info. Officer	808-5014				
<b>Fire Department</b>					
Regional Fire Communications	228-3035	228-3082			
<b>Risk Management (Call in order)</b>					
Joe Crady	808-5502	808-5160	396-5045	697-7169	726-6796
Larry Nelson (Claims Manager)	808-5739	808-5160	214-3030		933-9446
Regional Water Control Board					464-3291
State Office of ER Services	845-8911 or 845-8510				
State Dept of Fish & Game	445-0045				
State Dept of Health Services	322-2308	323-9869	799-4256	328-3605	328-3605
Sac. County Environmental Health	875-8440	875-8513			875-5000
U.S. Coast Guard	(510) 437-3073				(510) 437-3073
Sac. County Health Officer	875-5881				875-5000

Revised August 2006



## DEPARTMENT OF UTILITIES

### Sewer Overflow/Spill Notification Form

Name _____	Date _____	Time _____
Location: (1) CITY OPERATOR <input type="checkbox"/>	(2) CONTROL 12 <input type="checkbox"/>	(3) SAC CONTROL <input type="checkbox"/>
(4) FIELD SERVICES <input type="checkbox"/>	(5) PLANT SERVICES <input type="checkbox"/>	(6) EAFWTP <input type="checkbox"/>
(7) SRWTP <input type="checkbox"/>		

If a call is received regarding a hazardous material spill record as much of the information as possible below.

#### PERSON WHO NOTIFIED YOU:

NAME: _____
AGENCY: _____ PHONE NUMBER: ( ) - _____

#### SPILL INFORMATION

TIME AND DURATION OF SPILL (note if spill is ongoing): _____				
EXACT LOCATION/ADDRESS OF SPILL: _____				
SOURCE OF SPILL, IF KNOWN:	<input type="checkbox"/> MANHOLE	<input type="checkbox"/> MAIN	<input type="checkbox"/> SERVICE	<input type="checkbox"/> P.O.S. C/O
	<input type="checkbox"/> TWO WAY C/O			
MAIN PLUGGED BETWEEN	UPSTREAM MH	DOWNSTREAM MH		
TYPE OF SPILL:	<input type="checkbox"/> SEWER	<input type="checkbox"/> HAZMAT	MATERIAL	
RESPONSIBILITY FOR SPILL:	<input type="checkbox"/> CITY	<input type="checkbox"/> PROPERTY OWNER	<input type="checkbox"/> COUNTY SEWER	
CAUSE OF SPILL:	<input type="checkbox"/> ROOTS	<input type="checkbox"/> GREASE	<input type="checkbox"/> DEBRIS	
VOLUME/AMOUNT OF SPILL:	GALLONS _____			
DID THE SPILL ENTER A WATERWAY?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	NAME OF WATERWAY _____	
DID THE SPILL ENTER A STORM DRAIN?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		

#### WHO ORIGINATED THE SPILL?

NAME: _____
AGENCY: _____
PHONE NUMBER: ( ) - _____

#### WHO IS HANDLING THE ON-SITE SPILL RESPONSE?

NAME: _____
AGENCY: _____
PHONE NUMBER: ( ) - _____

#### COMMENTS:

PERSONNEL: _____
EQUIPMENT: _____

Form Reviewed by: \_\_\_\_\_ (Supervisor)



## DEPARTMENT OF UTILITIES

### Sewer Overflow Notification Checklist

NOTIFICATION: Refer to Appropriate Spills Procedure for Notification Information

(1) CITY OPERATOR	Name	Time

(2) CONTROL 12 (3) SAC CONTROL	Name	Time
<input type="checkbox"/> City Operator		
<input type="checkbox"/> SRWTP		
<input type="checkbox"/> EAFWTP		
<input type="checkbox"/> On-Call Plant Services		
<input type="checkbox"/> Supervisor		
<input type="checkbox"/> OTHER		

(4) FIELD SERVICES	Name	Time

(5) PLANT SERVICES	Name	Time

(6) EAFWTP	Name	Time
<input type="checkbox"/> On-Call SPO		
<input type="checkbox"/> SRWTP		
<input type="checkbox"/> CONTROL 12		
<input type="checkbox"/> CITY OPERATOR		
<input type="checkbox"/> BRYTE BEND WTP		
<input type="checkbox"/> FAX TO MIKE YEE		
<input type="checkbox"/> OTHER		

(7) SRWPT	Name	Time
<input type="checkbox"/> On-Call SPO		
<input type="checkbox"/> EAFWTP		
<input type="checkbox"/> CONTROL 12		
<input type="checkbox"/> CITY OPERATOR		
<input type="checkbox"/> ACWS		
<input type="checkbox"/> CWD		
<input type="checkbox"/> OTHER		



	City of Sacramento Incident/Loss Report				CLAIM NO.	
			Risk Mgt.	Org. Number	Dept./Division	
INSTRUCTIONS FOR FORM COMPLETION			Use Only			
SECTION I (Front)		Whenever a third party (public) sustains physical injury while on City property, property damage and/or it appears that the City may be liable, not caused by City-owned vehicle.				
SECTION II (Back)		Whenever damage or loss involves City property (i.e., Fire, theft of inventoried equipment, money or securities, vandalism – facilities, property, and equipment).				
SECTION 1						
<b>IMPORTANT!</b>	1.	Call Police 264-5471 advising City involvement.				
	2.	Keep calm and assist third party.				
	3.	Do not admit fault.				
	4.	Get name of injured Party and/or owner of damaged property.				
	5.	Carefully examine accident.				
	6.	Do not talk to anyone about the accident, except: Your Supervisor, the Police, or City Adjuster.				
	7.	If applicable, complete this section of Incident/Loss Report and distribute as required (below) within 24 hours.				
<b>NOTE!</b> In case there appears to be serious injuries, or extensive property damage, telephone the City's Safety Officer at 264-5278. (After normal work hours, call Police 264-5471.)						
Date & Time of Occurrence		Location of Occurrence		Time Police Notified	Police Incident Report number	None
Injuries Person(s)	Name & Address					
	Name & Address					
The Injury	The Nature & Location of Injury				Was injured person taken to hospital?	
					Name of Hospital	
					Name of Doctor	
Property Damage	Owner & Address				Business Phone	
					Residence Phone	
List of Property Damaged:						
Witness(s)	Name, Address, & Phone number					
	Name, Address, & Phone number					
	Name, Address, & Phone number					
Description of Occurrence						
Report Filed By	Name		Title		Date	Signature
	Org. No.	Dept.	Division		Phone number	
(If additional space is required use supplemental sheet of paper and attach hereto.)						
DISTRIBUTION Original and 1 copy to Risk Mgmt. 1 Copy retained by Dept/Div.						
FORM RM 3 (5/99) Cat No. 31524		Org. No.	Dept./Div. Signature		Date	Phone No.
		Risk Mgmt. Reviewer		Date	Phone No.	





## SECTION II of Incident/Loss Report Form

<b>IMPORTANT!</b>	1.	Call Police 264-5471 immediately on theft and vandalism losses, advising if loss involves City property.
	2.	Call Risk Management 264-5459 immediately on fire, money, and securities losses.
	3.	If applicable complete this section of Incident/Loss Report and distribute as required (below) within 24 hours.

Date & Time of Occurrence		Location of Occurrence		Time Police Notified		Police Incident Report number		Shield No.		Name	
Description of Occurrence											
Probable Cause											
Proposed Corrective Action											
Witness(s)											
Est. Cost of Replacement											
Inventory Tag number											
Report Filed By	Name			Title			Date		Signature		
	Org No.	Dept.		Division			Phone number				

(If additional space is required use supplemental sheet of paper and attach hereto.)

Original and 1 copy to Risk Mgmt 1 Copy retained by Dept/Div.							
	Org. No.	Dept./Div. Signature			Date	Phone No.	
FORM RM 3 (5/99) Cat No. 31524							
	Risk Mgmt. Reviewer			Date	Phone No.		



## **II. Wet Weather Combined System Overflow Response SOP**

Revised 10/26/05

*For notification list, see p. 27 of this manual*

### **Level A**

- Wet weather event;
- Less than (<) 1000 gallons
- Did/will **not** enter waters of the state
- Presents no exposure hazard to the public
  1. Secure the site
  2. Relieve the stoppage
  3. Begin clean-up
  4. Notify Regional Water Quality Control Board within 30 days

### **Level B**

- Wet weather event
- Less than (<) 1,000 gallons;
- Did/will **not** enter waters of the State;
- **High risk of public exposure (schools, daycare, malls, etc.);**
  1. Use chain of command to notify County Environmental Management Department (County EMD)
  2. Secure the site to minimize public exposure, including notifying signs at the site
  3. Post additional exposure notices as directed
  4. Relieve the stoppage
  5. Begin clean-up
  6. Notify Regional Water Quality Control Board (RWQCB) within 30 days

### **Level C**

- Wet weather event
- Greater than (>) 1,000 gallons; **or**
- Spill entered waters of the State
  1. Use chain of command to contact County EMD and other required agencies, including verbally notifying RWQCB within 24 hours and in writing within 5 days
  2. Secure the site to minimize public exposure, including notifying signs at the site
  3. Post additional exposure notices as directed
  4. Relieve the stoppage
  5. Begin clean-up

### **Level D**

- Catastrophic wet weather event, defined as:
- Very high risk of public exposure; and
- Widespread street flooding affecting multiple homes, businesses, one or more schools, day cares, at risk
  1. Use chain of command to contact County Health Officer/County EMD and other required agencies, including verbally notifying RWQCB within 24 hours and in writing within 5 days
  2. Secure the site to minimize public exposure, including notifying signs at the site
  3. Post additional exposure notices as directed
  4. Relieve the stoppage
  5. Begin clean-up



### **III. Sanitary Sewer Overflow (SSO) Response SOP**

Revised 11/9/05

*For notification list, see p. 27 of this manual*

When responding to an SSO, determine the event level and take immediate action.

#### **Level A**

- Less than (<) 1,000 gallons;
- Did/will **not** enter waters of the State;
- Presents no exposure hazard to the public
  5. Secure the site
  6. Relieve the stoppage
  7. Begin clean-up
  8. No notification outside Department of Utilities

#### **Level B**

- Less than (<) 1,000 gallons;
- Did/will **not** enter waters of the State;
- **High risk of public exposure (schools, daycare, malls, etc.);**
  7. Use chain of command to notify County Environmental Management Department (County EMD)
  8. Secure the site to minimize public exposure, including notifying signs at site
  9. Post additional exposure notices as directed
  10. Relieve the stoppage
  11. Begin clean-up

#### **Level C**

- Greater than (>) 1,000 gallons; or
- Entered waters of the State; or
- High risk of public exposure (schools, daycare, malls, etc.);
  6. Use chain of command to contact County EMD, RWQCB, and other required agencies
  7. Secure the site to minimize public exposure, including notifying signs at site
  8. Post additional exposure notices as directed
  9. Relieve the stoppage
  10. Begin clean-up

#### **Level D**

- Catastrophic event, defined as:
- Very high risk of public exposure; and
- Widespread street flooding affecting multiple homes, businesses, one or more schools, day cares, at risk
  1. Use chain of command to contact **County Health Officer**, County EMD, RWQCB, and other required agencies
  2. Secure the site to minimize public exposure, including notifying signs at site
  3. Post additional exposure notices as directed
  4. Relieve the stoppage
  5. Begin clean-up



#### **IV. Wet Weather CSO and SSO SOP**

1. All personnel responding to CSO's and SSO's will carry digital camera, exposure notices, barricades, caution tape, and traffic cones.
2. All personnel responding to CSO's and SSO's will photo document the event.
3. Wastewater Collection personnel will determine if an event is a CSO by the presence of debris (i.e. Fecal matter, toilet paper, condoms, etc.) or witnessing water exiting the combined system. If these conditions are not present, the event will be deemed a system surcharge and monitored for change.
4. The following formula will be used to calculate the volume (in gallons) of a CSO:  
$$L' \times W' \times D' \times 7.48 = \text{volume in gallons}$$
5. Volume of SSO's will be determined by the on-site Supervisor using the gpm x duration = volume formula.
6. Methods to be used to secure the site may include:
  - A. Restricting vehicle traffic using responding equipment, redirecting traffic using traffic cones, street closures, or with the assistance of the Police Department
  - B. Restricting pedestrian traffic using caution tape and barricades



## V. SSO/CSO Training SOP

1. Review SSO and CSO Response Checklists (see p. 33). Be sure everyone understands the difference and the steps to be taken with each.
2. Review the CSO/Surcharge Decision Tree (see p. 36). Be sure everyone knows the difference between an outflow and a surcharged condition.
3. Review the Wet Weather CSO and SSO Standard Operating Procedure (see p. 34). Be sure everyone understands their responsibilities and equipment they must have at hand.

Stress the importance of photo documenting the overflow or outflow, securing the site, and calculating the volume of the overflow or outflow.

4. To explain the formula to calculate volume of the overflow or outflow, use the following example:

$$L' \times W' \times D' \times 7.48 = \text{Volume of spill}$$

(Length in feet times width in feet times depth in feet times the constant of 7.48 gallons per cubic foot equals volume of the overflow or outflow. To make the calculation a bit easier, we will use .1 to equal one inch.)

Substituting 200 for L, 4 for W, .1 for D, the equation will be:

$$200 \times 4 \times .1 \times 7.48 = \text{Volume}$$

$$800 \times .1 \times 7.48 = \text{Volume}$$

$$80 \times 7.48 = \text{Volume}$$

$$598.4 \text{ gallons} = \text{Volume of overflow or outflow}$$

(Calculators will be available for this calculation!)

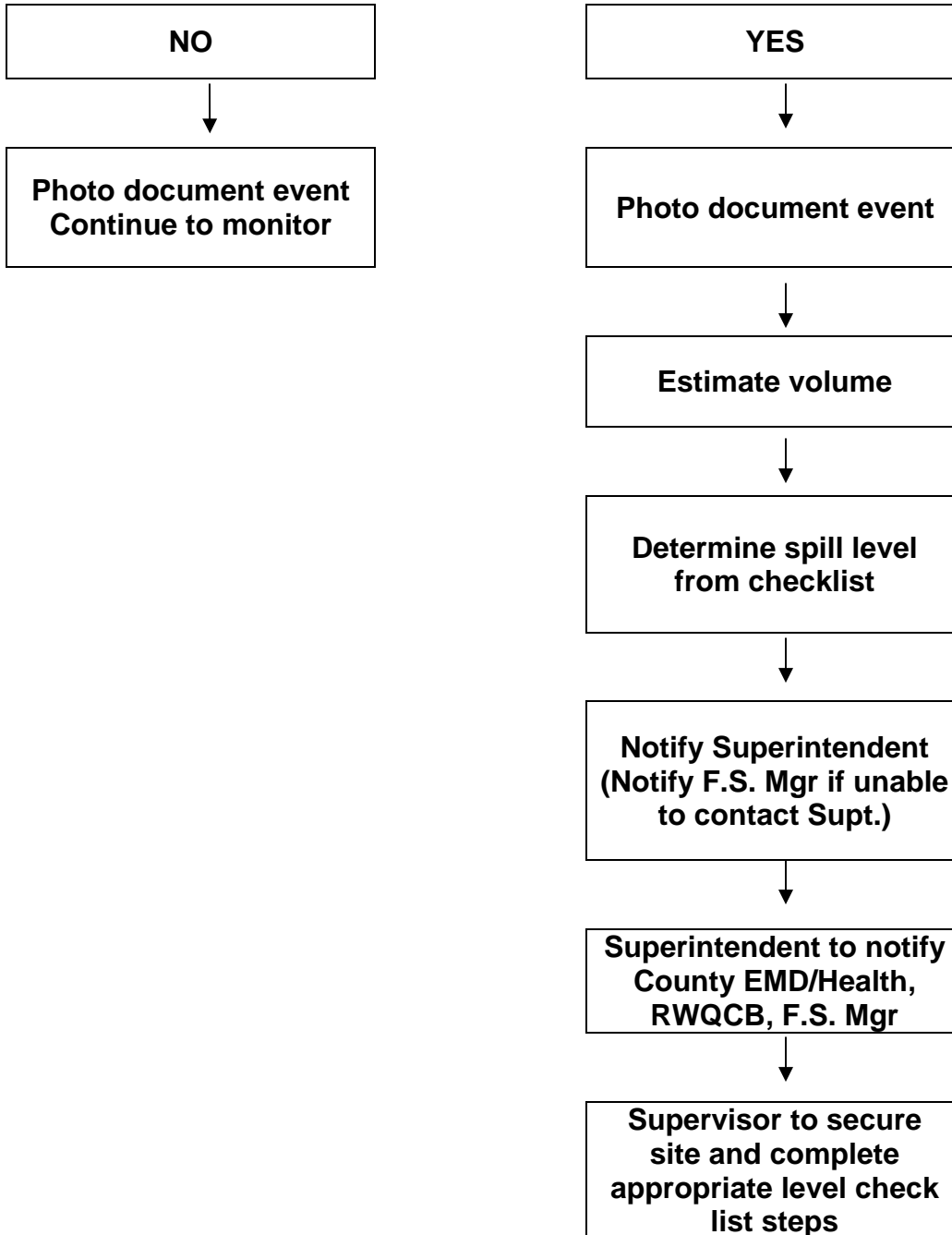
Review this information until everyone understands their duties and responsibilities, and can perform the calculation.



## VI. CSO/Surcharge Decision Tree

*For notification list, see p. 27 of this manual*

**Is sewer debris present?  
OR  
Is water flowing from the system?**





## **VII. Rain Patrol SOP**

The Drainage Collection Section is responsible for the implementation of rain patrols. Depending on the amount of rainfall, one of two patrolling plans will be implemented. When appropriate, the Wastewater Collection Section assists Drainage Collection with Rain Patrol. Drainage Collection is responsible for the separated system and Wastewater Collection for the combined system.

### ***Patrolling Plans***

During the winter months, the Field Services Division is prepared to implement one or two Rain Patrol Plans for the collection system. The Drainage Collection Section decides whether to implement **Plan A** or **Plan B** based upon the current weather conditions.

- ♦ **Plan A:** Minor Rain Event Where Rainfall Is ½ Inch Or Less in One Hour.

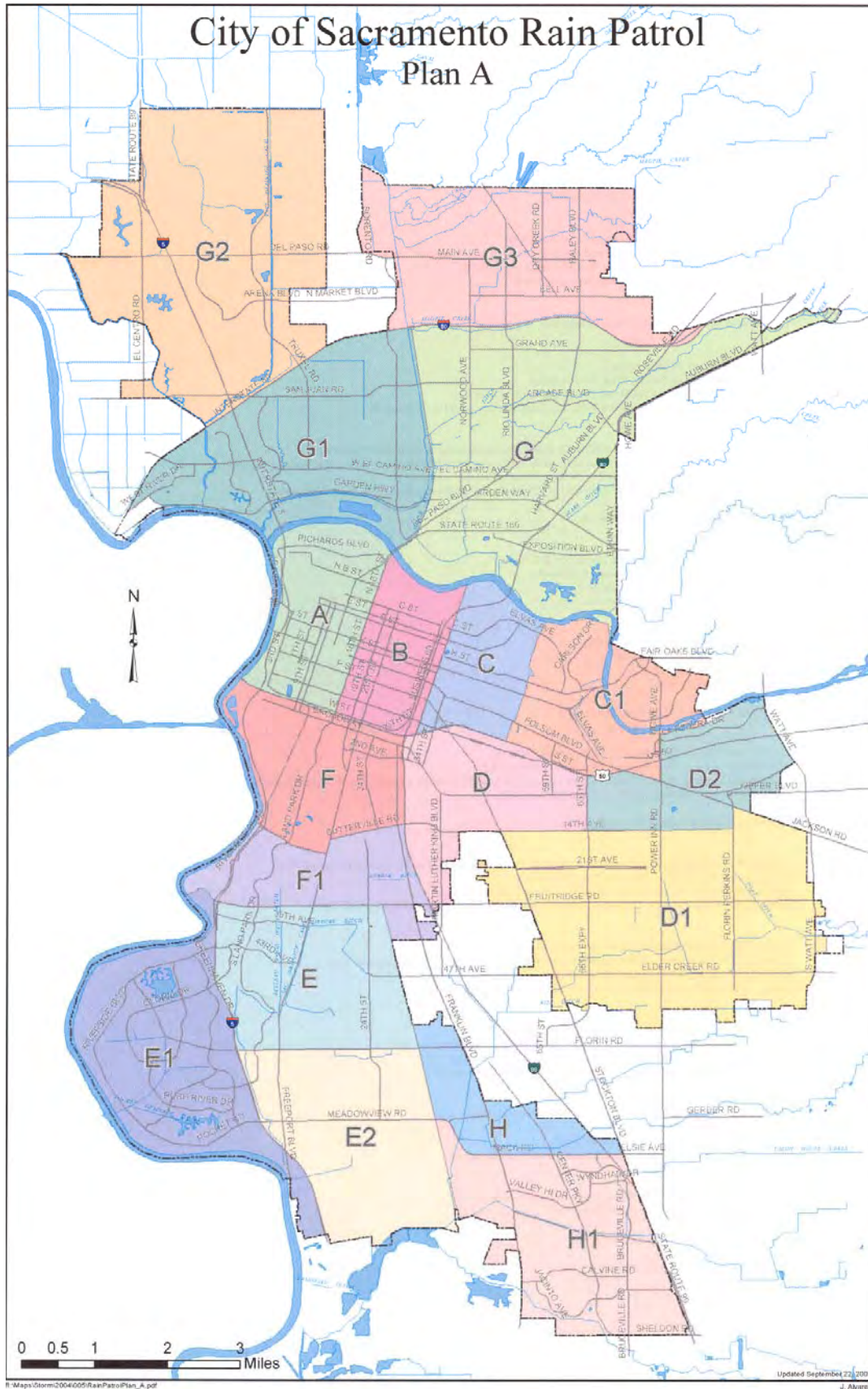
**Plan A** is a modified rain patrol plan in which approximately 12 Wastewater Collection personnel (in two-person crews) participate. While using this plan, the City is divided into 17-18 large areas, of which Wastewater Collection is responsible for 6. These sections correspond to A, B, C, D, D2, and F (see *Plan “A” map on the following page*). Generally, one crew is dispatched per area, although additional crews may be assigned depending on the incident, including crews responsible for specific pieces of equipment.

- ♦ **Plan B:** Large Rain Event Where Rainfall Is ½ Inch Or More in One Hour.

When implementing **Plan B**, the City is split into 36 separate areas, of which Wastewater Collection is responsible for 14. These are Areas 1-6, 9-12, and 14-17 (see *Plan “B” map on p. 39*). Approximately 93 Field Services personnel (Drainage Collection, Water Distribution, and Wastewater Collection) participate in this plan, including roughly 34 personnel from Wastewater Collection (2-person crews).

The same consideration that is used during the minor rain event is also used to decide when, where and how many crews will be dispatched. In this phase, approximately 40 personnel are drawn from the Water Distribution Section and Public Works' Streets Division.









## BOUNDARIES PLAN A

### Area A

North: American River from Sacramento River east to 16th St.  
East: 16th St. from American River south to Freeway I-80.  
South: Freeway I-80 from 16th St. west to Sacramento River.  
West: Sacramento River from Freeway I-80 north to American River.

### Area B

North: American River from 16th St. east to Alhambra Bv.  
East: Alhambra Bv. From American River south to Highway 50.  
South: Highway 50 to Freeway I-80 from Alhambra Bv. West to 16th St.  
West: 16th St. from Freeway I-80 north to American River.

### Area C

North: American River from Alhambra Bv. East to the County Line.  
East: County Line south to American River west to Howe Ave. then south to Jackson Rd.  
South: Jackson Rd. to Highway 50 from Howe Ave. west to Alhambra Bv.  
West: Alhambra Bv. from Highway 50 north to American River.

### Area C1

Everything in Area C east of 48th St. to Coloma Rd.

### Area D

North: Highway 50/Freeway 99 interchange.  
East: To Folsom Blvd. East on Folsom Blvd. to 65th St.  
South: To 14th Ave. follow east to 65th St. Everything north of 14th Ave.  
West: Follow County Line to Freeway 99/Fruitridge Rd. North on Freeway 99 to Highway 50.

### Area D2

North: North to Folsom Blvd. East on Folsom Blvd. To Howe Ave. to American River East to County Line.  
East: Follow County Line from American River at Howe Ave. Change to South Watt Ave., South to the Southern County Line.  
South: Follow County Line from South Watt Ave. West to Western County Line.  
West: Follow Western County Line South to 14th Ave. West on 14th Ave. to 65th St. Everything North of 14th Ave.

### Area D1

Everything in Area D south of 14th Ave.

### Area E

North: Fruitridge Rd from Sacramento River east to U.P.R.R. tracks.  
East: U.P.R.R. tracks from Fruitridge Rd south to Florin Rd.  
South: Follow Florin Rd. from U.P.R.R. tracks to I-5.  
West: Follow I-5 from Florin Rd. north to Seamas Ave.

### Area E2

North: Florin Rd. from I-5 east to U.P.R.R. tracks.  
East: U.P.R.R. tracks south to County Line.  
South: Follow County Line west to I-5.  
West: Follow I-5 north to Florin Rd.



Area E1

Everything in Area E & E2 west of Freeway I-5.

Area F

North: Freeway I-80 from the Sacramento River east to Alhambra Bv.

East: Alhambra Bv/Highway 50 to Freeway 99 south to Fruitridge Rd.  
Fruitridge Rd/Freeway 99 south follow County Line to Fruitridge Rd/Franklin Bv. then west on Fruitridge Rd. to

West: Sacramento River from Fruitridge Rd. north to Freeway I-80.

Area F1

Everything in Area F south of Sutterville Rd.

Area G

North: Follow I-80 from East Drainage Canal east to County Line and then follow County Line east to Auburn Blvd.

East: Follow County Line south to American River by Cal Expo.

South: Follow American River from Route 160 west to County Line by Cal Expo.

West: Follow U.P.R.R. tracks east of Drainage Canal from I-80 south to Route 160 and American River.

Area G1

North: Follow I-80 from Sacramento River to East Drainage Canal.

East: Follow U.P.R.R. tracks east of Drainage Canal from I-80 south to Route 160 and American River.

South: Follow American River from Route 160 west to Sacramento River.

West: Follow County Line on Sacramento River from American River north to I-80.

Area G2

North: Follow County Line from State Route 99 to eastern County Line.

East: From northern County Line follow west of East Main Drainage Canal south to I-80.

South: Follow I-80 from East Drainage Canal west to County Line at Drainage Canal.

West: Follow County Line from I-80 north to northern County Line on Elkhorn Bv.

Area G3

North: Follow County Line from Sorento Rd. east to County Line (Patrol Rd).

East: Follow County Line south to I-80.

South: Follow I-80 west to County Line (Northgate Blvd.)

West: Follow County Line north to East Levee Rd. and Sorento Rd. Intersection.

Area H

North: Follow County Line east from U.P.R.R. tracks to eastern County Line.

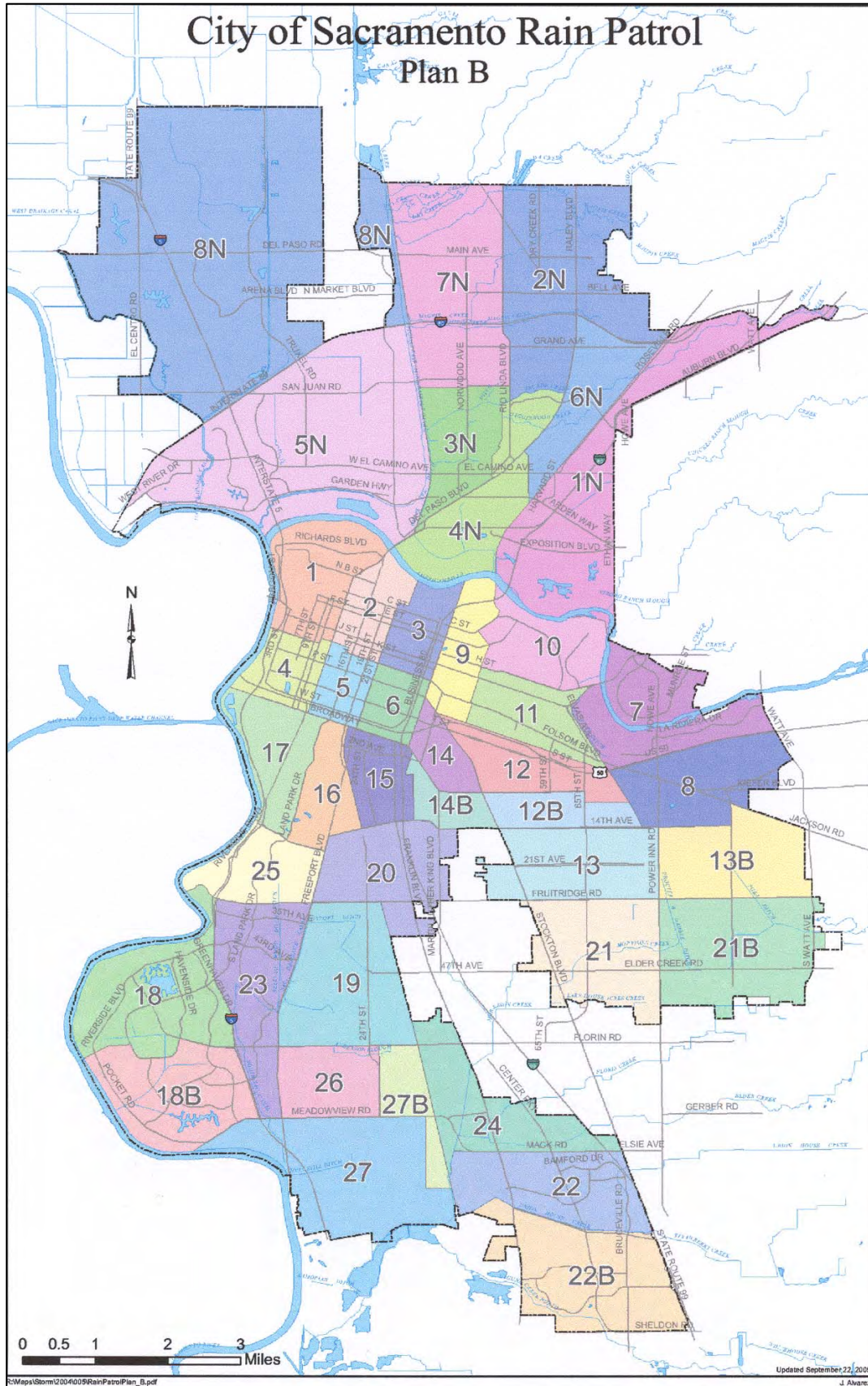
East: Follow County Line south to southern County Line.

South: Follow County Line west to U.P.R.R. tracks.

West: Follow U.P.R.R. tracks north to County Line.

Area H1

Everything in Area H south of Mack Rd.





## BOUNDARIES PLAN B

### Area 1

North: American River from Sacramento River to North 12th St.  
West: Sacramento River from Capitol Bridge N to American River Junction.  
South: Capitol Mall from Capitol Bridge E to 10th St. N to L St. E to 12th St.  
East: 12th St. from N St. to American River.

### Area 2

North: American River from North 12th St. to point N of the river N of 25th St.  
West: 12th St. from N St. to American River.  
South: L St. from 12th St. E to 15th St. S to Capitol Av E to 21st St. then N to the American River.  
East: 21st St – Capitol Av N to R.R. W down R.R. tracks to 25th St then N to the American River.

### Area 3

North: 21st St. at R.R. tracks E to 23rd St then N to American River E to a point on the American River N of Alhambra Bv  
West: 21st St. from the Capitol Av N to R.R. W down R.R. tracks to 25th St. then N to the American River.  
South: 21st St. and Capitol Av E to Alhambra Bv  
East: Capitol Av N on Alhambra Bv straight to a point on the American River.

### Area 4

North: Capitol Mall from Capitol Bridge E to 10th St. N to L St. E to 12th St.  
West: Sacramento River from Capitol Mall S to a straight point off Brdwy.  
South: Point on Sacramento River E on Brdwy to Riverside Bv N on 11th St. to W St. E to 12th St.  
East: 12th from N St. S to W St. W to 11th St. S to Brdwy.

### Area 5

North: L St. from 12th St. E to 15th St. S to Capitol Av E to 21st St.  
West: 12th St. from N St. S to W St. W to 11th St. S to Brdwy.  
South: Brdwy. from 11th E to 21st St.  
East: 21st St from Capitol Av S to Brdwy.

### Area 6

North: 21st St. and Capitol Av E to Alhambra Bv.  
West: 21st St. from Capitol Av S to Brdwy.  
South: Brdwy from 21st St E to Alhambra Bv.  
East: Alhambra Bv from Brdwy N to Capitol Av

### Area 7

North: H St. from S.P.R.R. tracks E to American River. Up the river to County Line. E to Watt Av.  
West: S.P.R.R. tracks from H St. S to Hwy 50.  
South: Hwy 50 from S.P.R.R. tracks to Watt Av.  
East: Watt Av. from Hwy 50 N to County Line.

### Area 8

North: Hwy 50 from S.P.R.R. tracks to Watt Av.  
West: S.P.R.R. tracks from Hwy 50 S to 14th Av.  
South: 14th Av from S.P.R.R. tracks E to Florin Perkins Rd. N to Jackson Rd. E to County Line.  
East: County Line from Jackson Rd N to Hwy 50.

### Area 8N

North: Follow County Line from State Route 99 to eastern County Line.





West: Follow County Line from I-80 north to northern County Line on Elkhorn Bv.  
South: From County Line north of I-80 to East Drainage Canal.  
East: From northern County Line follow west of East Main Drainage Canal south to I-80.

Area 9

North: American River from a point N of Alhambra Bv. E to S.P.R.R. tracks.  
West: Alhambra Bv from a point on the American River S to Stockton Bv.  
South: Stockton Bv from Alhambra to R.R. tracks then E to 39th St.  
East: 39th St from R.R. tracks N to C St. E to S.P.R.R.

Area 10

North: American River from S.P.R.R. tracks W of FreeWy I-80 E on river to H St.  
West: S.P.R.R. tracks from American River S to C St. then on 39th St. S to H St.  
South: H St. from 39th St. E to H St. Bridge over the American River.  
East: American River from S.P.R.R. tracks W of FreeWy I-80 E on river to H St.

Area 11

North: H St. from 39th St. E to R.R. tracks E of Elvas Av.  
West: 39th St from H St. S to Light Rail R.R. tracks.  
South: Light Rail R.R. tracks from 39th St E to S.P.R.R. tracks E of Elvas Av.  
East: S.P.R.R. tracks from H St. S to Light Rail R.R. tracks.

Area 12

North: Light Rail R.R. tracks from Stockton Bv E to S.P.R.R. tracks E of Elvas Av.  
West: Stockton Bv from Light Rail R.R. tracks S to Brdwy.  
South: Brdwy from Stockton Bv E to 65th Expressway then S to San Joaquin St. E on San Joaquin St to S.P.R.R. tracks.  
East: S.P.R.R. tracks from Light Rail R.R. tracks S to San Joaquin St.

Area 12B

North: Brdwy from Stockton Bv E to 65th Expressway then S to San Joaquin St. E on San Joaquin St to S.P.R.R. tracks.  
West: Stockton Bv from Brdwy S to 14th Av.  
South: 14th Av from Stockton Bv E to S.P.R.R. tracks.  
East: S.P.R.R. tracks from San Joaquin St. S to 14th Av.

Area 13

North: 14th Av from Stockton Bv to Power Inn Rd.  
West: Stockton Bv from 14th Av S to the County Line W along County Line then S along County Line to Fruitridge Rd and 53rd St.  
South: Fruitridge Rd from 53rd St. E to Power Inn Rd.  
East: Power Inn Rd. from 14th Av S to Fruitridge Rd.

Area 13B

North: 14th Av from S.P.R.R. tracks E to Florin Perkins Rd. N to Jackson Rd. E to County Line.  
West: Power Inn Rd. from 14th Av S to Fruitridge Rd.  
South: Fruitridge Rd from Power Inn Rd E to South Watt Av.  
East: County Line from Jackson Rd S to Fruitridge Rd.

Area 14

North: Stockton Bv from Alhambra Bv S to Brdwy.  
West: Alhambra Bv from Stockton Bv S to Brdwy.  
South: Brdwy from Alhambra Bv S then E to Stockton Bv.  
East: Stockton Bv from Alhambra Bv S to Brdwy.



Area 14B

North: Brdwy from Alhambra Bv S then E to Stockton Bv.  
West: 32nd from Brdwy S to Marshall Wy. E on Marshall Wy to 33rd St. S on 33rd St to 16th Av.  
South: 14th Av from 33rd St E to County Line to Stockton Bv.  
East: Stockton Bv from Brdwy S to 14th Av.

Area 15

North: Brdwy from U.P.R.R. tracks E to Alhambra Bv.  
West: U.P.R.R. tracks from Brdwy S to Sutterville Rd.  
South: Sutterville Rd from U.P.R.R. tracks E, changes into 12th Av, to 33rd St.  
East: 32nd St from Brdwy S to Marshall Wy. E on Marshall Wy to 33rd St. S on 33rd St to 12th Av.

Area 16

North: Brdwy from 16th St E to U.P.R.R. tracks.  
West: Land Park Dr from Brdwy S to Sutterville Rd.  
South: Sutterville Rd from Land Park Dr E to Freeport Bv. N on Freeport Bv E on Sutterville Rd to U.P.R.R. tracks.  
East: U.P.R.R. tracks from Brdwy S to Sutterville Rd.

Area 17

North: Point on Sacramento River E on Brdwy to Land Park Dr (16th St).  
West: Sacramento River from Brdwy S to Sutterville Rd.  
South: Point on Sacramento River E on Sutterville Rd. to Land Park Dr.  
East: Land Park Dr. from Brdwy S to Sutterville Rd.

Area 18

North: Seamas Av from Freeway I-5 W on Seamas Av to the Sacramento River.  
West: Sacramento River from Seamas Av S to Portinao Circle.  
South: Florin Rd from Freeway I-5 W on Florin Rd to Havenside Dr. S on Havenside Dr, changes to Gloria Dr, to Rivergate Wy. W on Rivergate Wy to Sacramento River.  
East: Freeway I-5 from Seamas Av S to Florin Rd.

Area 18B

North: Florin Rd. from Freeway I-5 W on Florin Rd to Havenside Dr. S on Havenside Dr, changes to Gloria Dr, to Rivergate Wy. W on Rivergate Wy to to Sacramento River.  
West: Sacramento River from Portinao Circle S to Pocket Rd at Freeway I-5.  
South: Sacramento River from Portinao Circle S to Pocket Rd at Freeway I-5.  
East: Freeway I-5 from Pocket Rd N to Florin Rd.

Area 19

North: Fruitridge Rd from Freeport Bv E to U.P.R.R. tracks.  
West: Freeport Bv from Fruitridge Rd S to Florin Rd.  
South: Florin Rd from Freeport Bv E to U.P.R.R. tracks.  
East: U.P.R.R. tracks from Florin Rd N to Fruitridge Rd.

Area 20

North: Sutterville Rd from Freeport Bv E, changes to 12th Av, to County Line by 40th St.  
West: Freeport Bv from Sutterville Rd S to Fruitridge Rd.  
South: Fruitridge Rd from Freeport Bv E to U.P.R.R. tracks. S on tracks to County Line at Campbell Soup then E on County Line to 39th Av at Freeway I-99.  
East: County Line from 14th Av S to 39th Av.

Area 21

North: Fruitridge Rd from County Line at 53rd St E to Power Inn Rd.



West: County Line from Fruitridge Rd S to 47th Av.  
South: County Line from 47th Av E to Power Inn Rd.  
East: Power Inn Rd from County Line at Cantina Circle N to Fruitridge Rd.

Area 21B

North: Fruitridge Rd from Power Inn Rd E to County Line at South Watt Av.  
West: Power Inn Rd from Fruitridge Rd S to County Line.  
South: County Line from Power Inn Rd E to Elk Grove Rd and Florin Rd.  
East: County Line from Elder Creek Rd N to Fruitridge Rd.

Area 22

North: Mack Rd from Morrison Creek at U.P.R.R. tracks N to Mack Rd then E to Stockton Rd.  
West: U.P.R.R. tracks from Morrison Creek S to Union House Creek.  
South: Union House Creek from U.P.R.R. tracks to Strawberry Creek E to County Line at Freeway I-99.  
East: County Line from Strawberry Creek N to Mack Rd.

Area 22B

North: Union House Creek from U.P.R.R. tracks E to Strawberry Creek E to County Line.  
West: County Line.  
South: County Line.  
East: County Line.

Area 23

North: Seamas Av from Freeway I-5 E, changes to Fruitridge Rd, to Freeport Bv.  
West: Freeway I-5 from Seamas Av S to Pocket Rd.  
South: Pocket Rd from Freeway I-5 E to Freeport Bv.  
East: Freeport Bv from Pocket Rd N to Fruitridge Rd.

Area 24

North: County Line from U.P.R.R. tracks E to 52nd Av S and E to Stockton Bv.  
West: U.P.R.R. tracks from Nancy Lake S to Morrison Creek.  
South: Mack Rd from Morrison Creek E to Stockton Bv.  
East: County Line from U.P.R.R. tracks E to 52nd Av S and E to Stockton Bv.

Area 25

North: Sutterville Rd from Sacramento River E to Freeport Bv.  
West: Sacramento River from Sutterville Rd S to Seamas Av.  
South: Seamas Av, changes to Fruitridge Rd, from Sacramento River to Freeport Bv.  
East: Fruitridge Bv from Sutterville Rd S to Fruitridge Rd.

Area 26

North: Florin Rd from Freeport Bv E to 25th St.  
West: Freeport Bv from Florin Rd S to Meadowview Rd.  
South: Meadowview Rd from Freeport Bv E to 24th St.  
East: 25th St from Meadowview Rd N to 25th St to Florin Rd.

Area 27

North: Pocket Rd to Meadowview Rd from 7942 Pocket Rd P.L, Sacramento River, E to 3250 Meadowview Rd, Nation Guard Armory.  
West: Sacramento River from 7942 Pocket Rd P.L. S to Stonecrest Av, County Line.  
South: County Line from Freeport Bv E to W.P.R.R. tracks.  
East: County Line at W.P.R.R. tracks N to a point S of Detroit Bv W to Meadowview Rd, Nation Guard Amory.



Area 27B

North: Florin Rd from 25th St E to W.P.R.R. tracks.  
West: 25th St from Florin Rd to 24th St S to Meadowview Rd.  
South: 25th St from Florin Rd to 24th St S to Meadowview Rd.  
East: W.P.R.R. tracks from Florin Rd S to end of Detroit Bv.

Area 1N

North: County Line from S.P.R.R. tracks E to County Line.  
West: S.P.R.R. tracks from County Line S to American River.  
South: American River from S.P.R.R. tracks to County Line.  
East: County Line from American River N.

Area 2N

North: Ascot Av from Rio Linda Bv to County Line (Patro Road)  
West: Rio Linda Bv from Ascot Av south to Arcade Creek  
South: Arcade Creek E of Rio Linda Bv to Marysville Bv. N on Marysville Bv to Freeway I-80 E to County Line.  
East: County Line from Freeway I-80 north to Ascot Av.

Area 3N

North: Ford Rd from U.P.R.R. tracks E to Rio Linda Bv.  
West: U.P.R.R. tracks from Ford Rd S to Del Paso Bv.  
South: Del Paso Bv from U.P.R.R. tracks E to Oakmont St.  
East: Oakmont St N from Del Paso Bv to Traction Av. Northeast on Traction Av to Eleanor Av. W to Altos Av then N to Arcade Creek. E to Rio Linda Bv then N to Ford Rd.

Area 4N

North: Arcade Creek from Altos E to Marysville Rd.  
West: From Arcade Creek S on Altos Av to Eleanor Av. E on Eleanor Av to Traction Av then S to Oakmont St. S to Del Paso Bv then SW to American River.  
South: American River from Del Paso Bv E to S.P.R.R. tracks.  
East: S.P.R.R. tracks at American River N to Lexington St. N on Lexington St to Glenrose Av W to Del Paso Bv, changes to Marysville Bv, to Arcade Creek.

Area 5N

North: Freeway I-80 from U.P.R.R. tracks W to County Line by the Sacramento River.  
West: Freeway I-80 from U.P.R.R. tracks W to County Line by the Sacramento River.  
South: County Line on Freeway I-80 to Sacramento River to American River then E on American River to Del Paso Bv.  
East: Del Paso Bv at American River E to U.P.R.R. tracks N to Freeway I-80.

Area 6N

North: Freeway I-80 from S.P.R.R. tracks W to Marysville Bv.  
West: Marysville Bv S from Freeway I-80 to Del Paso Bv to Eleanor Av. SE to Lexington St S to S.P.R.R. tracks.  
South: Marysville Bv S from Freeway I-80 to Del Paso Bv to Eleanor Av. SE to Lexington St S to S.P.R.R. tracks.  
East: S.P.R.R. tracks from Freeway I-80 to Lexington St.

Area 7N

North: Follow northern County Line from U.P.R.R. tracks to Rose Street.  
West: East of East Drainage Canal from northern County Line south to Ford Road.  
South: Ford Rd from U.P.R.R. tracks (on East Drainage Canal) East to Rio Linda Bv.  
East: Rio Linda Bv from Ford Rd North to Ascot Ave





## PATROLLING

The Department of Utilities has various patrolling responsibilities during the rainy season which is normally from October through May. These Patrolling responsibilities include levee patrol, rain patrol, pumping plant patrol and combined sewer system patrol.

### ***General Information***

The following sections outline rain patrol responsibilities for the Field Services Division and the Plant Services Division. These responsibilities include the stormwater drainage collection system, pumping plants and the combined sewer system service area.

### ***Drainage Collection System Patrol***

#### Field Services Division

During the winter months, the Field Services Division is prepared to implement one or two Rain Patrol Plans for the collection system. The Drainage Collection Section decides whether to implement Plan A or Plan B (see definitions on p. 37) based upon the current weather conditions.

The Field Services Division Rain Patrol Crews will be dispatched into areas from Building 19. Lists of personnel who are qualified for Rain Patrol duty are located at 5730 24th Street, Building 19.

Initial set up of the Rain Patrol plans will be the responsibility of the Drainage Collection Superintendent. Supervisors from the Drainage Collection Division and the Wastewater Collection Division are trained to implement this plan. The Plant Services Division Manager is responsible for the implementation of the Plant Services Patrol Duty.

During off-duty hours, the City Operator will notify the Drainage Collection Section's On-Call Supervisor as trouble calls are received. The On-Call Supervisor has the responsibility to initiate the rain patrol plans and notifies WWC on-call Supervisor.

After the plans are implemented, the North and South Area Supervisors will survey large drainage problems and ditches in their respective areas. Depending on rainfall and reported flooding incidents, additional rain patrol crews may be dispatched.

#### Plant Services Division

During the winter months, the Plant Services Division is prepared to implement its Rain Patrol Plan for the Sewer and Drainage Pumping Stations. Its rain patrol plan is implemented whenever weather conditions and/or telemetry systems or flow conditions at Sump 1, Sump 1A and Sump 2 dictate. The City is broken down into 123 storm basins which collect the water and feed it to some 98 pumping plants.



*Combined System Patrol*

Rain Patrol crews patrolling the combined sewer system will keep the Drainage Collection Superintendent informed of major street flooding and what streets are closed. The Drainage Collection Superintendent will keep the Streets Division Manager informed of the conditions. If the Drainage Collection CP or UOC is activated, the rain patrol crews will keep the Operations Section Chief informed of street flooding and of the overall situation. The Operations Section Chief will in turn keep the Incident Commander informed.

Incoming emergency calls referred by the City Operator will be answered by experienced staff at the Drainage Collection CP, located at 5730 24th Street, Building 19.



## DEPARTMENT OF UTILITIES

### SITUATION REPORT

#### RAIN PATROL

#### FIELD SERVICES

For Use in a  
Plan A or B  
Rain Event

DATE: \_\_\_\_\_

START TIME: \_\_\_\_\_ END TIME: \_\_\_\_\_ RAIN PATROL PLAN: \_\_\_\_\_

NUMBER OF PERSONNEL: \_\_\_\_\_ NUMBER OF CALLS: \_\_\_\_\_

ANY SIGNIFICANT PROBLEMS: \_\_\_\_\_

RAIN FALL LAST 24 HOURS: \_\_\_\_\_ SAC RIVER ELEVATION @ I ST: \_\_\_\_\_

#### PLANT SERVICES

NUMBER OF SUMPS IN HIGH ALARM: \_\_\_\_\_

NUMBER OF POWER FAILURES: \_\_\_\_\_

SUMPS OPERATING ON GENERATORS: \_\_\_\_\_

PUMPS DOWN: \_\_\_\_\_ LOCATIONS: \_\_\_\_\_

C.W.T.P. DISCHARGE: \* ☐ PIONEER DISCHARGE: \* ☐ SUMP II DISCHARGE: \* ☐

NUMBER OF PERSONNEL: \_\_\_\_\_

ANY SIGNIFICANT PROBLEMS: \_\_\_\_\_

START TIME: \_\_\_\_\_ END TIME: \_\_\_\_\_